

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

SEP 2 2 2015

CERTIFIED MAIL 7009 1680 0000 7677 8800 RETURN RECEIPT REQUESTED

Mr. Larry Kandel Director of Operations Baerlocher USA, LLC 3676 Davis Road Northwest Dover, Ohio 44622

> Re: Notice of Violation Compliance Evaluation Inspection OHR000031567

Dear Mr. Kandel:

On August 4, 2015 representatives of the U.S. Environmental Protection Agency and Ohio Environmental Protection Agency inspected the Baerlocher USA facility located in Dover, Ohio (hereinafter "BUSA," "facility," or "you"). As a large quantity generator of hazardous waste, BUSA is subject to the Resource Conservation and Recovery Act, 42 U.S.C. § 6901 *et seq.* ("RCRA"). The purpose of the inspection was to evaluate BUSA's compliance with certain provisions of RCRA and its implementing regulations related to the generation, treatment and storage of hazardous waste. A copy of the inspection report is enclosed for your reference.

Based on information provided by BUSA, EPA's review of records pertaining to BUSA, and the inspector's observations, EPA has determined that BUSA has unlawfully stored hazardous waste without a permit or interim status as a result of its failure to comply with certain conditions for a permit exemption under Ohio Admin. Code § 3745-52-34(A)-(C) [40 C.F.R. § 262.34(a)-(c)]. EPA has identified the permit exemption condition with which BUSA was out of compliance at the time of the inspection in paragraph 1, below.

Finally, EPA has determined that BUSA violated the RCRA requirement related to land disposal restriction recordkeeping, as described in paragraph 2, below.

STORAGE OF HAZARDOUS WASTE WITHOUT A PERMIT OR INTERIM STATUS

At the time of the inspection, BUSA was out of compliance with the following large quantity generator permit exemption condition:

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1. Use and Management of Containers

Under Ohio Admin. Code 3745-52-34(C)(1)(b) [40 C.F.R. § 262.34(c)(1)(ii)], a generator may accumulate as much as 55 gallons of hazardous waste in containers ("satellite containers") at or near the point of waste generation which are under the control of the operator of the process generating the waste without a permit or interim status, as long as the satellite containers are marked with the words "Hazardous Waste" or with other words that identify the contents of the containers.

At the time of inspection, BUSA was accumulating hazardous waste in satellite containers in Building 31. Near a 55-gallon drum that was accumulating hazardous waste, BUSA was storing multiple sample jars of hazardous laboratory waste in a white plastic bucket. The bucket was not labeled as "Hazardous Waste" or with any other waste descriptors. A BUSA representative stated that the sample jars were intended to be emptied into the nearby 55-gallon drum. Later on the day of inspection, a photograph was provided that showed the sample jars had been drained into the 55-gallon drum and the bucket had been emptied. Thus, no further action is necessary to comply with this condition.

Summary: By failing to comply with the condition for a permit exemption, above, BUSA became an operator of a hazardous waste storage facility, and was required to obtain an Ohio hazardous waste storage permit. BUSA failed to apply for such a permit. BUSA's failure to apply for and obtain a hazardous waste storage permit violated the requirements of Ohio Admin. Code §§ 3745-50-45(A) and 3745-50-41(A) and (D) [40 C.F.R. §§ 270.1(c), and 270.10(a) and (d)].

OTHER VIOLATIONS

BUSA violated the following generator requirement:

2. Land Disposal Restriction Recordkeeping Requirements

Under Ohio Admin. Code 3745-270-07(A)(8) [40 C.F.R. § 268.7(a)(8)], a generator of a hazardous waste restricted from land disposal without further treatment must retain on-site copies of all notices, certifications, waste analysis data, and other documentation related to land disposal restrictions for at least three years from the date that the waste that is subject to such documentation was last sent to an off-site treatment, storage or disposal facility.

At the time of inspection, BUSA could provide only one land disposal restriction notification form for its laboratory pack hazardous waste stream. Copies of land disposal restriction notification forms that had been completed for the initial shipments of other

hazardous waste streams, including currently-generated wastewater, filter cake, and other liquid wastes, were not maintained on-site. On August 5, 2015, BUSA provided copies of the land disposal restriction notification forms associated with its hazardous waste wastewater, filter cake, and other liquid wastes. As long as these records are maintained on-site for at least three years after the final shipment of these hazardous wastes, no further action is necessary to comply with this requirement.

At this time, EPA is not requiring BUSA to apply for an Ohio hazardous waste storage permit so long as it maintains compliance with the condition for a permit exemption outline in paragraph 1, above.

During the inspection, as observed by EPA, and after the inspection, as documented in August 4 and 5, 2015 emails to EPA, you took certain actions to establish compliance with the above condition and recordkeeping requirement. Based on the information received from BUSA on August 4 and 5, EPA is not planning additional enforcement actions based on this inspection at this time. This letter does not limit the applicability of the requirements evaluated, or of other federal or state statutes or regulations. EPA appreciates BUSA's cooperation.

If you have any questions regarding this letter, please contact Mr. Brian Kennedy, of my staff, at (312) 353-4383 or at kennedy.brian@epa.gov.

Sincerely,

Gary J. Victorine, Chief

RCRA Branch

Enclosure

cc: Melody Stewart, Ohio EPA (melody.stewart@epa.ohio.gov)

Teri Finfrock, Ohio EPA (teri.finrock@epa.ohio.gov)



U.S. ENVIRONMENTAL PROTECTION AGENCY Region 5, Land and Chemicals Division RCRA Branch, LR-8J 77 West Jackson Boulevard Chicago, Illinois 60604

COMPLIANCE EVALUATION INSPECTION REPORT

INSPECTION DATE:

August 4, 2015

SITE NAME:

Baerlocher USA, LLC

ADDRESS:

3676 Davis Road Northwest

Dover, Ohio 44622

EPA ID NUMBER:

OHR000031567

GENERATOR STATUS: Large Quantity Generator

NAICS CODE:

325199 All Other Basic Organic Chemical Manufacturing

FACILITY CONTACT:

Larry Kandel

Director of Operations

EPA INSPECTOR:

Brian Kennedy

Environmental Engineer Compliance Section 2

RCRA Branch

Land and Chemicals Division

PREPARED BY:

APPROVED BY:

Morris, Chief

Compliance Section 2

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Purpose of Inspection

An unannounced Compliance Evaluation Inspection ("CEI") of Baerlocher USA, LLC (hereinafter "BUSA" or "facility") located at 3676 Davis Road Northwest, Dover, Ohio took place on August 4, 2015. The CEI was conducted by U.S. Environmental Protection Agency and Ohio Environmental Protection Agency ("OEPA") personnel and was an evaluation of the facility's compliance with certain provisions of the Resource Conservation and Recovery Act ("RCRA") and its implementing regulations found in the Ohio Administrative Code and the Code of Federal Regulations. More specifically, the CEI was an evaluation of BUSA's compliance with the regulations governing large quantity generators of hazardous waste.

Participants

The following persons were present for part or all of the inspection:

Larry Kandel - Director of Operations	BUSA
James Moore - Health, Safety and Environment Director	DCC
Janice Austin – Environmental Manager	DCC
Ben Rohr – Environmental Coordinator	DCC
Melody Stewart – Environmental Specialist	OEPA
Brian Kennedy – Environmental Engineer	U.S. EPA

Introduction

I arrived on site at 9:00 AM EST and met with Melody Stewart of the OEPA. We entered the main office building and requested to see an environmental coordinator. We were led to Mr. Larry Kandel, BUSA's Director of Operations, who directed us to a nearby conference room. I presented Mr. Kandel my enforcement officer credentials and business card and provided the Small Business Resource and Pollution Prevention information sheets. I described the purpose of the U.S. EPA RCRA inspection and the process by which I would conduct the inspection, including a site tour that would involve photographs of hazardous waste storage areas as well as a review of BUSA records pertaining to hazardous waste. Mr. Kandel provided a summary of the site operations. Representatives of the Dover Chemical Corporation ("DCC"), which owns and operates all buildings on site, also joined the opening conference. They included Mr. James Moore, DCC's Health, Safety and Environmental Director, Ms. Janice Austin, DCC's Environmental Manager, and Mr. Ben Rohr, DCC's Environmental Coordinator.

I informed BUSA of their right to make a confidential business information claim over the information and documents collected during the inspection.

Site Description

The following information about BUSA is based on personal observations of the EPA inspector and on representations made during the inspection by facility personnel identified above or within the text unless otherwise specified.

BUSA specializes in producing heavy metal stabilizers for polyvinyl chloride (PVC) plastics. When PVC is manufactured, it undergoes high temperature processing that would otherwise burn or deform the material. BUSA's heavy metal stabilizers, which are viscous liquid additives, prevent damage to the PVC when this processing occurs. BUSA blends its stabilizers in a single production building that is located within the larger operations of the DCC. BUSA came to operate on DCC's property in 1990 under a contract to rent production and office space. BUSA's operations are a small portion of the chemical manufacturing processes conducted by DCC on the property. DCC itself produces a large variety of chemicals including alkyl phenols, chlorinated paraffins, polymer additives, and others.

BUSA currently has nine administrative employees on site, and contracts four additional employees from DCC for certain work. BUSA has four, 10-hour shifts Monday through Thursday. The production of heavy metal stabilizers occurs in Building 27A. The main office building is Building 32.

Wastes generated by BUSA in Building 27A include wastewaters from the stabilizer production process. This wastewater (characterized as D001, D005, and D006 hazardous waste) contains barium and cadmium metals as well as intermixed solvents. The solvents are decanted and the wastewater is accumulated in a steel tote. Every few days, the tote is taken to Building 1, where BUSA maintains a hazardous waste tank system. The tote is emptied into a second decanter to remove residual solvents, pumped to an interim tank, and then into a final storage tank. The interim tank has a capacity of 1,200 gallons and the storage tank can hold 4,500 gallons. The decanter and dual tank system is in secondary containment. Solvent that is decanted from the wastewater is accumulated as D001, D005 and D006 hazardous in satellite drums. Hazardous wastewater is drained from the tanks and taken off site by Enviroserve.

Other wastes generated in Building 27A include cross-contaminated liquids which are drained from processing equipment, carbon adsorption tower distillate, and filter cake and filter paper that is generated by filtering the final stabilizer to remove any contaminants before sale. These materials are also characterized by BUSA as D001, D005, and D006 hazardous waste. Drums of cross-contaminated liquids, adsorption tower distillate, and decanted solvents are taken to a 90-day storage area in the warehouse of Building 35 for storage. The filter cake and filter paper are placed in a covered roll-off box in the parking lot outside of Building 31. BUSA also generates waste samples of stabilizer from laboratory quality testing as well as occasional lab packs of various chemicals. These materials are accumulated as hazardous waste in Building 31. These hazardous wastes are taken off site by either American Waste Management or PennOhio.

As DCC manages and maintains all buildings on site, universal waste is kept in a DCC storage area. All hazardous wastes generated by DCC are stored separately from BUSA hazardous wastes. The Dover Fire Department has visited the site within the past year to evaluate both DCC and BUSA. Fire extinguishers are located throughout all buildings on site.

Site Tour

The site tour was led by Mr. Kandel. Ms. Austin and Mr. Rohr also joined. During the tour, Mr. Rohr conducted air monitoring to ensure that flash photography was safe in production areas.

The site tour began outside the south side of Building 27A. At the southwest corner of the building was a satellite drum accumulating hazardous waste carbon adsorption tower distillate (See Photo 1 in Attachment A: Inspection Photographs). The drum was labeled as D001, D005, and D006 hazardous waste and was closed. Distillate was draining into the drum through a fastened pipe. The drum was placed on a plastic containment system.

Moving inside Building 27A, Mr. Kandel briefly explained the BUSA production process. There was a satellite drum accumulating hazardous waste near the southwest entrance (See Photo 2). Mr. Kandel said it was accumulating cross-contaminated liquids from overhead equipment. The drum was also labeled as D001, D005, and D006 hazardous waste. A second drum next to this one also had a hazardous waste label, but was empty (See Photo 3). Mr. Kandel said this drum would take the place of the current satellite drum once it became full.

Over this satellite accumulation area was a raised production platform. Mr. Kandel led us onto the platform and pointed out BUSA's filter press, which generates waste filter cake and paper. The filter cake and paper drops through a chute and accumulates in a steel container below (See Photo 4). This container was marked as hazardous waste. Mr. Kandel said this container is emptied each day into a larger outdoor roll-off container near Building 31. In the corner of this same room was a large steel tote accumulating the excess process wastewater. The tote was marked as hazardous waste (See Photo 5). Mr. Kandel said BUSA generates roughly 5,000 gallons of the wastewater every six weeks. This tote is taken to the hazardous waste storage tank system to be emptied about once every two days.

Mr. Kandel led the tour to Building 1 to view the hazardous waste storage tank system. When the tote of wastewater from Building 27A is brought here, it is hooked up to a pump system and the liquid moves to a decanter. The decanter is marked as 213T (See Photo 6). Solvent removed from the wastewater as it moves through the decanter is accumulated in a nearby satellite accumulation drum (See Photo 7). This drum was labeled as D001, D005, and D006 hazardous waste. Past the decanter, the wastewater moves to Tank 214T, which acts primarily as extra storage capacity. This tank is normally kept empty (See Photo 8). The tank was marked as hazardous waste. After 214T, the wastewater is pumped to Tank 341T for storage (Photo 9). Mr. Kandel said that BUSA tracks its 90 day storage limit by dating and attaching a new hazardous waste label to Tank 341T every time wastewater is initially charged to the system. The decanter and tanks are all in a concrete secondary containment system (visible in Photos 7, 8, and 9), which appeared to be in good shape during the inspection.

On a steel catwalk over the tank system, Mr. Kandel described the overfill alarm systems present on both Tanks 214T and 341T. The roof of Tank 341T is in Photo 10. Photo 11 is the roof of Tank 214T. Mr. Kandel said the tank system was equipped with leak detection sensors and pointed to the electrical control box on a nearby wall. Looking in the secondary containment system it was unclear where the leak sensors were placed. Mr. Kandel said the tank system is inspected seven days per week and logs of these inspections are maintained.

The tour continued to Building 31 where BUSA maintains a small waste accumulation area. When empty totes of stabilizer are returned from customers, BUSA sprays the totes clean and accumulates the wash water in a satellite drum (See Photo 12). The drum was labeled as

hazardous waste. Mr. Kandel also said the drum accumulates waste laboratory samples that are generated on site. I opened an unlabeled bucket next to the drum. It contained many sample jars of laboratory waste (See Photo 13). Mr. Kandel said these sample jars were meant to be emptied into the satellite drum.

In the parking lot south of Building 31, Mr. Kandel directed us to the hazardous waste roll-off box that accumulated filter cake and paper generated in Building 27A (See Photo 14). The roll-off box was covered and appeared to be in good condition. It was labeled as hazardous waste and dated 7/1/2015. Mr. Kandel said BUSA generates about 10,000 pounds of the filter cake waste in a 90 day period.

Moving further south to Building 35, Mr. Kandel led to the tour to BUSA's 90-day hazardous waste storage area. The storage area was a designated spot in a larger warehouse space and waste inspection logs were kept nearby (See Photo 15). At the time of the inspection, BUSA was storing three drums in the area, all of which were waste solvents from Building 27A. The three drums were labeled as hazardous waste and all were dated 8/3/2015 (See Photo 16). Mr. Kandel said this waste is scheduled to be picked up by PennOhio.

The tour headed back to the main office to review records. No used oil or universal waste was observed during the inspection.

Record Review

I requested the following BUSA documents for review:

- Hazardous waste manifests for the previous three years as well as related land disposal restriction notification forms
- Waste profiles and laboratory reports for waste determinations
- BUSA's hazardous waste contingency plan
- Personnel training records related to hazardous waste management and emergencies
- Records related to BUSA's hazardous waste tank system, including the engineering assessment and inspection logs

A brochure containing a map of DCC and BUSA in Attachment B.

Mr. Kandel provided copies of hazardous waste training sessions that took place in 2015, 2014 and 2013. Mr. Kandel said he had undergone formal training in hazardous waste management and now provides that training to BUSA employees. Several example exams from these training sessions were reviewed.

The hazardous waste contingency plan was reviewed next. The plan states Mr. Kandel is the primary emergency coordinator on site, with John Dallatore as the backup. The plan makes note of the evacuation routes on site, and provides a list of available emergency equipment, its location, and a description of its capabilities. BUSA has mailed copies of its plan to local authorities.

Mr. Kandel provided copies of laboratory reports BUSA used to make its waste determinations. A report for the filter cake from 1997 shows the material is hazardous for both barium and cadmium. Similarly, a report for the waste solvent shows the material is hazardous for its cadmium content. Mr. Kandel provided two reports for the process wastewater. The most recent report (2008) only appeared to have a total metals analysis, which showed high levels of cadmium and barium. However, an older report from 1997 for the process water was a TCLP analysis, and both barium and cadmium were below TCLP limits. Ms. Stewart and I discussed with Mr. Kandel that BUSA should have another TCLP analysis done on its wastewater to determine if it's truly a hazardous waste. The reports are in Attachment C.

Three years of hazardous waste manifests were reviewed. The most recent manifest was dated 7/28/2015, and displayed the shipment of 14 drums of D001, D005, and D006 hazardous waste to PennOhio. Prior to this, a manifest from 6/28/2015 displayed the shipment of the filter cake roll-off box. The manifests reviewed appeared complete and all had signed copies from the disposal facility. Only one land disposal restriction form was seen for a lab-pack shipment. I asked Mr. Kandel where land disposal restriction forms were located for the other BUSA waste streams. He said he wasn't sure, but that he could get copies from the TSDs.

Mr. Kandel provided hazardous waste storage tank inspection logs, which had been kept in a handwritten notebook. The condition of the tanks and any potential leaks were recorded daily for the decanter (213T), the interim tank (214T) and the primary storage tank (341T). Several years' worth of inspections were reviewed. Mr. Kandel also provided the Professional Engineering assessment for the tank system, which is in Attachment D.

Closing Conference

I summarized my review of the site and potential issues to Mr. Kandel, Ms. Austin, and Mr. Rohr. These included:

- The management of waste laboratory samples that were found in an unlabeled bucket in Building 31
- Maintaining copies of land disposal restriction notification forms on site for all waste streams
- Retesting the process wastewater to see if it remains a hazardous waste for barium and cadmium content

I showed Mr. Kandel the photographs I took during the site tour.

Mr. Kandel did not make a confidential business information claim over the information or materials collected during the inspection.

The inspection ended at approximately 11:30 AM.

Inspection Follow-Up

On the same day of the inspection, Mr. Kandel emailed a photograph of the satellite accumulation area in Building 31 which shows the sample jars had been emptied into the 55-gallon drum.

On August 5, 2015, Mr. Kandel sent a second email that contained the land disposal restriction notification forms for its filter cake, liquid wastes, and process wastewater.

These documents are provided in Attachment E.

Attachments

- A. Inspection Photographs
- B. Facility Map
- C. Analytical Reports
- D. Tank Assessment
- E. Follow-Up Documents
- F. Inspection Checklists

ATTACHMENT A: Inspection Photographs
Photographs were taken by Brian Kennedy using a Canon PowerShot A2400 IS Digital Camera.

RCRA Photo Log

Photo	Description	Time (CST)
1	Satellite accumulation drum collecting carbon tower distillate outside the southwest corner of Building 27A.	9:04 AM
2	Satellite accumulation drum in Building 27A accumulating waste solvent.	9:07 AM
3	An empty drum that will replace the satellite drum in Photo 2.	9:08 AM
4	Accumulation container for the filter cake and paper in Building 27A.	9:11 AM
5	A steel tote accumulating process wastewater in Building 27A.	9:12 AM
6	The decanter Tank 213T as part of the hazardous waste storage tank system in Building 1.	9:18 AM
7	The satellite accumulation drum in Building 1 that collects waste solvent from the decanter.	9:18 AM
8	The interim hazardous waste storage Tank 214T in Building 1.	9:19 AM
9	The primary hazardous waste storage Tank 341T in Building 1.	9:19 AM
10	The roof of Tank 341T.	9:21 AM
11	The roof of Tank 214T.	9:21 AM
12	Satellite accumulation drum in Building 31 accumulating waste wash water.	9:32 AM
13	A bucket of waste laboratory samples of stabilizer that were to be emptied into the drum in Photo 12.	9:34 AM
14	The hazardous waste filter cake and paper roll-off box in the lot south of Building 31.	9:36 AM
15	The 90-day hazardous waste storage area in Building 35.	9:42 AM
16	The three drums of hazardous waste solvent in the 90-day storage area. All drums were labeled and dated.	9:41 AM



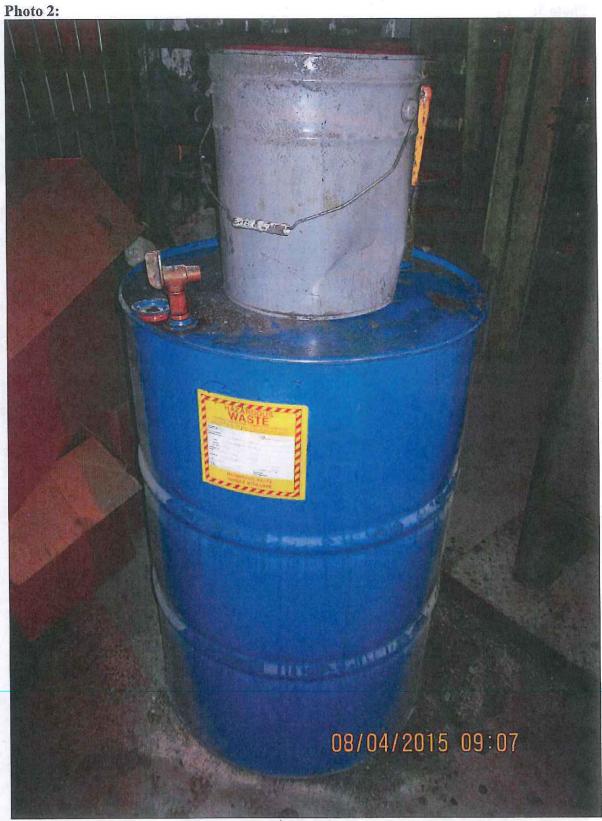


Photo 3:

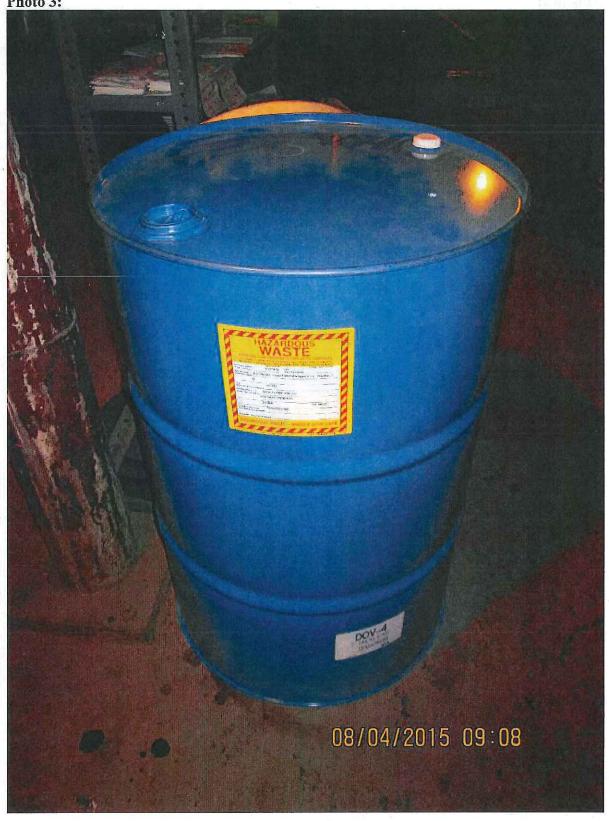


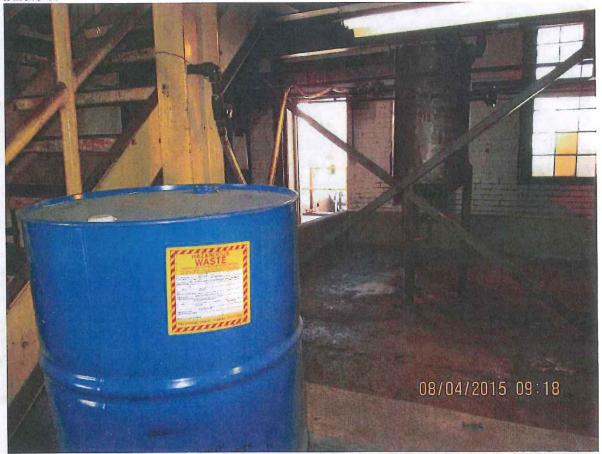
Photo 4:



Photo 5:



Photo 6:



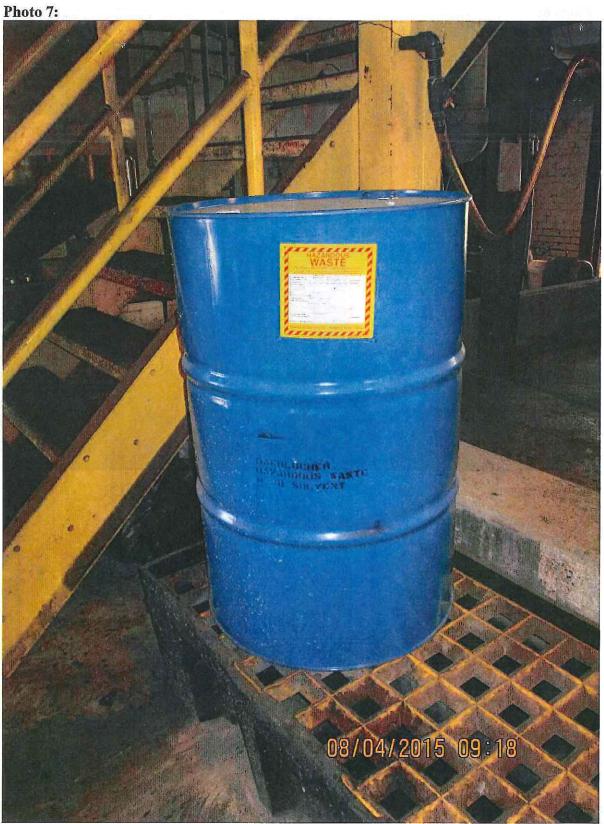


Photo 8:

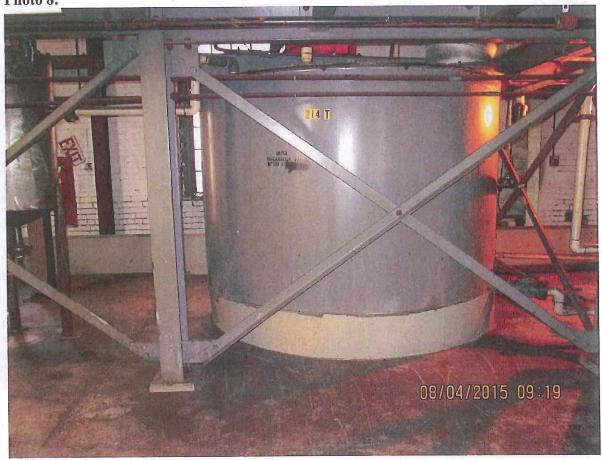


Photo 9:

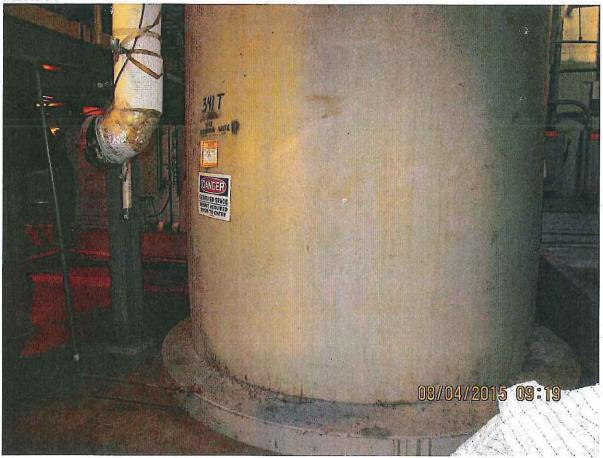


Photo 10:

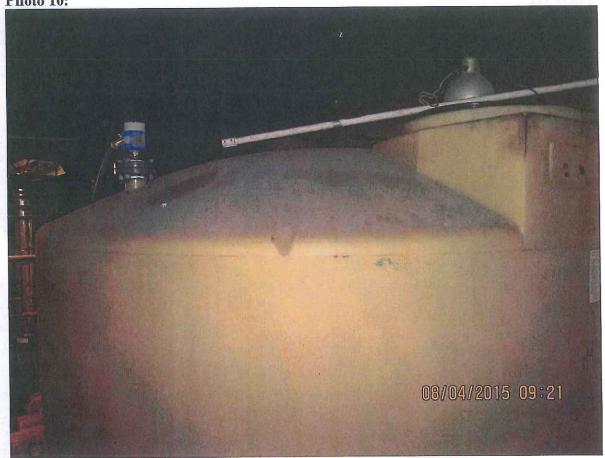
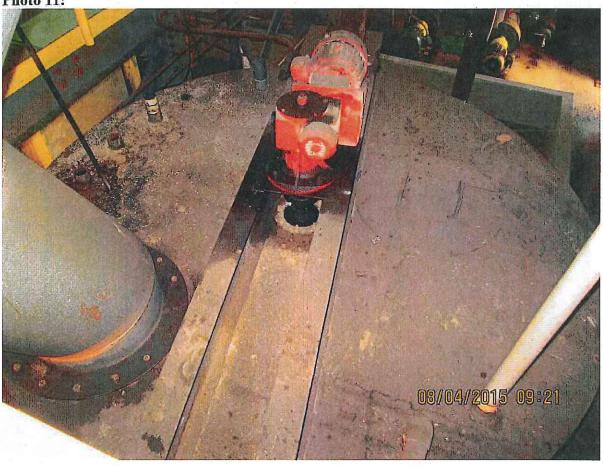


Photo 11:



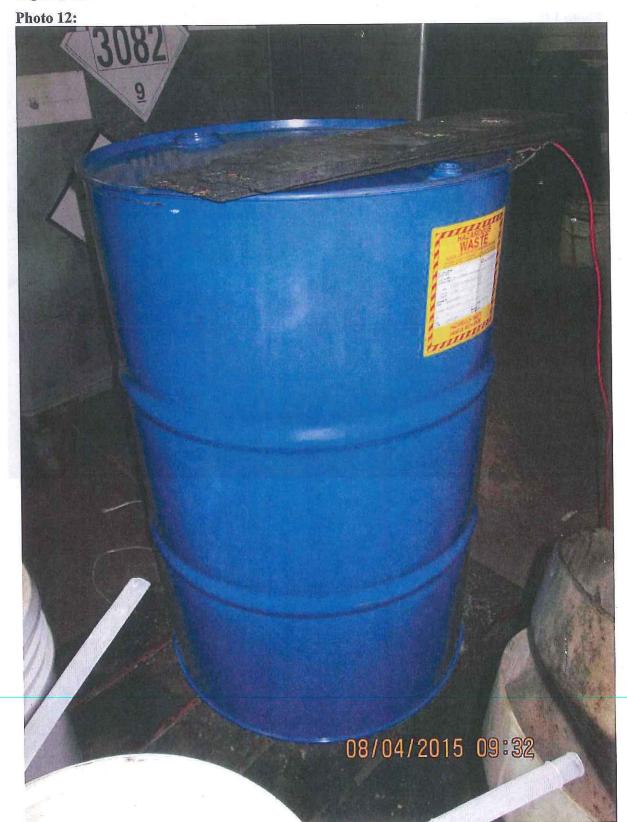


Photo 13:

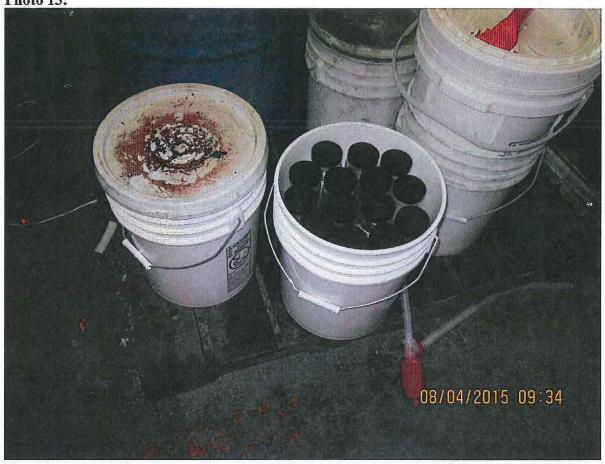


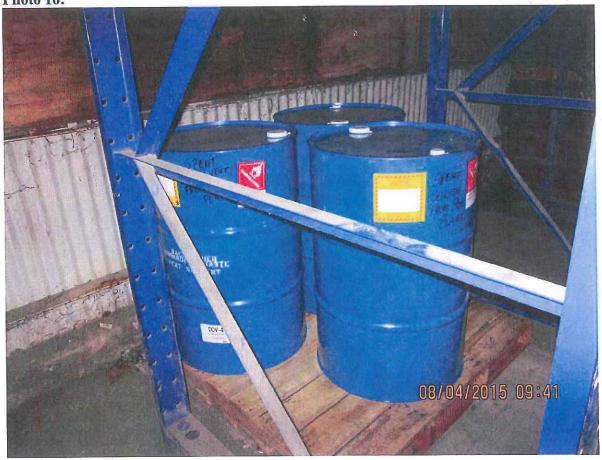
Photo 14:



Photo 15:



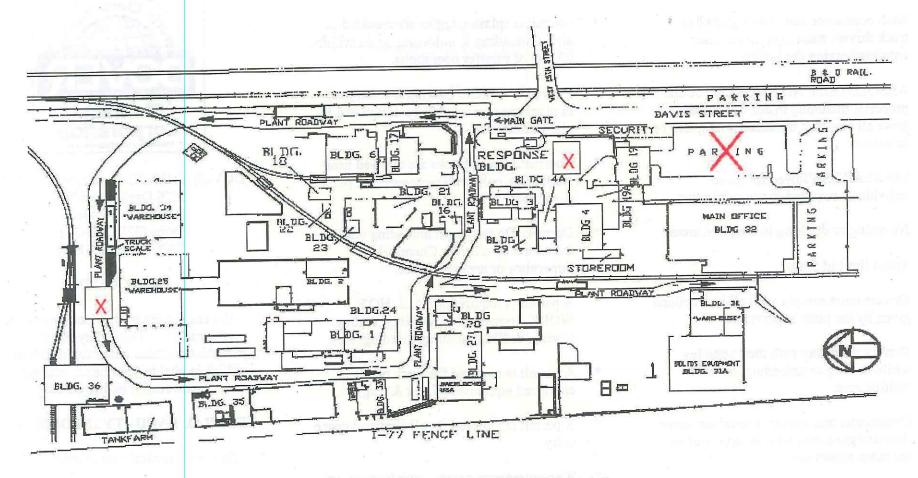
Photo 16:



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ATTACHMENT B: Facility Map

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EMERGENCY ALARM ANNOUNCEMENTS

- $\sqrt{}$ Announcements will be made over the telephone public address system stating the nature of the emergency.
- Assemble at evacuation assembly point, DO NOT LEAVE ASSEMBLY POINT UNTIL ACCOUNTED FOR AND INSTRUCTED TO DO SO.
- √ Contractor foreman are responsible for accounting for all of their employees and reporting to the Emergency Coordinator.
- √ Do not enter plant in event of emergency
- √ Evacuation assembly point X

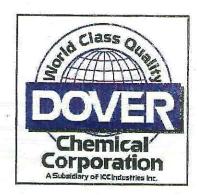
FACILITY RULES

- * Each contractor and visitor <u>including</u> truck drivers must sign in/out when entering/leaving the facility.
- * ABSOLUTELY NO SMOKING on the property, including inside of vehicles, leave all smoking materials with guard or in vehicle.
- * NO BEARDS allowed for those individuals required to use respirators...
- * No eating or drinking in the plant areas.
- * Speed limit of 5 mph.
- * Drivers must comply with all instructions given by the plant supervisor.
- * Drivers must stay with their vehicles while loading or unloading, or inside waiting area.
- * Contractors and visitors should not leave their assigned area without approval by the plant supervisor.
- * Hard hats, safety glasses, with side shields, closed-toed shoes and long sleeve shirt and pants are required everywhere except offices, lunchroom and restrooms.
- * No cell phone use allowed in the operational areas/shipping of the plant.

rules continued on next page

FACILITY RULES (cont.)

- * Chemical splash goggles are required in all bulk-loading & unloading areas within 25 feet of transfer operations.
- * Passenger vehicles parking is prohibited in plant areas except where designated by plant supervisor.
- * Contractor work trucks are allowed near work areas only with permission of plant supervisor.
- * Drivers: Do not begin unloading until so instructed by a Dover Chemical Supervisor or area employee.
- * A permit is required for ALL HOT WORK, (power tools, welding, cutting, sawing, drilling, sanding, grinding, etc).
- * A permit is required for work on all energized equipment (Lock & Tag).
- * A permit is required for all confined space entry.
- * If an emergency occurs, stop loading, or unloading, close valves at truck and tank, shut-off pumps and evacuate to assembly area. DO NOT ATTEMPT TO MOVE VEHICLES.
- * Assembly area is noted on the plot plan.
- * The use of cameras including cellular cameras is allowed by permission only.



DOVER CHEMICAL CORPORATION 3676 Davis Road NW Dover, Ohio 44622 Phone (330) 343-7711 FAX (330) 364-1579

WELCOME!

The employees of this facility wish to welcome you. This safety information pamphlet contains important information which is vital to your health and safety.

Please read it before entering.

GENERAL FACILITY INFORMATION

- * This is a chemical manufacturing facility.
- * Characteristics of chemicals at this site may be:

FLAMMABLE COMBUSTIBLE CORROSIVE POISONOUS REMEMBER

SAFETY FIRST WITH CHEMICALS

Material Safety Data Sheets are available for all chemicals on site. If you have any questions, ask a Dover Chemical employee.

ATTACHMENT C: Analytical Reports

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Date: 2/10/97

Date Received: 2/03/97

Date Analyzed: 2/6-7/97

Analysis For : Trans-Enviro, Inc.

TRANS-ENVIRO # : 970203-04-A

Customer I.D. : Baerlogher

CHARACTERISTIC of TCLP METALS

ELEMENT/(EPA HW No. 1)	DL mg/L	RL mg/L	RESULTS mg/L
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	(D004) (D005) (D006) (D007) (D008) (D009) (D010) (D011)	0.180 0.009 0.008 0.009 0.084 0.0005 0.190 0.004	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0	BDL BDL BDL BDL BDL

RL = Regulatory Limit

DL = Detection Limit

BDL = Below Detection Limit

1 = Hazardous Waste Number

Methods: Extraction - EPA SW 846(1311)

Mercury - EPA SW 846 (7470)

Other metals - EPA SW 846 (6010)

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Cash in Advance / Prepaid Sales Client Sample ID: PROCESS WATER

TOTAL Metals

Lot-Sample #...: A8G140188-001

Date Sampled...: 07/14/08 10:00 Date Received..: 07/14/08

Matrix....: WG

PARAMETER	RESULT	REPORTING LIMIT UNITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER #
Prep Batch # Arsenic	: 8197016 21.8	10.0 ug/L Dilution Factor: 1	SW846 6010B	07/15-07/16/08 KRG8F1AC
Barium	14400	200 ug/L Dilution Factor: 1	SW846 6010B	07/15-07/16/08 KRG8F1AF
Cadmium	5310	25.0 ug/L Dilution Factor: 5	SW846 6010B	07/15-07/16/08 KRG8F1AG
Lead	ND	3.0 ug/L Dilution Factor: 1	SW846 6010B	07/15-07/16/08 KRG8F1AD
Chromium	ND	10.0 ug/L Dilution Factor: 1	SW846 6010B	07/15-07/16/08 KRG8F1AH
Selenium	6.9	5.0 ug/L Dilution Factor: 1	SW846 6010B	07/15-07/16/08 KRG8F1AE
Silver	ND	10.0 ug/L Dilution Factor: 1	SW846 6010B	07/15-07/16/08 KRG8F1AJ
Mercury	ND	0.20 ug/L Dilution Factor: 1	SW846 7470A	07/15/08 KRG8F1AK

American Waste Management Services Inc

Client Sample ID: BUSA SOLVENT

TCLP Metals

Lot-Sample #...: A1B030556-002 Matrix.....: LH

Date Sampled...: 02/02/11 13:15 Date Received..: 02/03/11 Leach Date....: 02/07/11 Leach Batch #..: P103807

Leach Date	.: 02/07/11	neach bacch 4.	2100007	
PARAMETER	RESULT'	REPORTING LIMIT UNITS	METHOD	PREPARATION- WORK ANALYSIS DATE ORDER #
Prep Batch # Arsenic	ND ND	0.50 mg/L Dilution Factor: 1	SW846 6010B	02/08-02/11/11 MD2FV1AE
Barium	ND	10.0 mg/L Dilution Factor: 1	SW846 6010B	02/08-02/11/11 MD2FVIAM
Lead	NID	0.50 mg/L Dilution Factor: 1	SW816 601.0B	02/08-02/11/11 MD2FV1AF
Cadmium	4.0	0.50 mg/L Dilution Factor: 1	SW846 601.018	02/08-02/11/11 MD2FVIAN
Selenium	ND	0.50 mg/L Dilution Pactor: 1	SW816 601.013	02/08-02/11/11 MD2FV1AG
Chromium	ND	0.50 mg/L Dilucion Factor: 1	SW846 601.0B	02/08-02/11/11 MD2FVIAP
Silver	ND	0.50 mg/L Dilution Factor: 1	SW846 601.0B	02/08-02/11/11 MD2FV1AQ
Mercury	ND	0.033 mg/L Dilution Factor: 1	SW846 7471A	02/08-02/14/11 MD2FV1AH

NOTE (S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

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Date: 7/09/97

Date Received: 6/25/97 Date Extracted: 7/01/97

Date Analyzed: 7/02/97

Analysis For : Dover Chemical

TRANS-ENVIRO # : 970625-11-A

Customer I.D. : Barnlocker Filter

CHARACTERISTIC of TCLP METALS

				*
ELEMENT/()	EPA HW No. 1)	DL mq/L	RL mg/L	RESULTS mg/L
Arsenic Barium Cadmium Chromium Lead Mercury Selenium	(D004) (D005) (D006) (D007) (D008) (D009) (D010)	1.80 90 0.08 0.09 0.84 0.0003 1.90	5.0 100.0 1.0 5.0 5.0 0.2 1.0	BDL 968 3.88 BDL BDL BDL BDL
Silver	(D011)	0.04	5.0	BDL

RL = Regulatory Limit

DL = Detection Limit

BDL = Below Detection Limit

1 - Hazardous Waste Number

Methods: Extraction - EPA SW 846(1311)

Mercury - EPA SW 846 (7470)

Other metals - EPA SW 846(6010)



Baerlocher USA, LLC OHR000031567 August 4, 2015

ATTACHMENT D: Tank Assessment

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Project No.: 16488

PROJECT MEMORANDUM

DATE:

April 22, 2008

PROJECT:

Baerlocher Wastewater Tanks

TO:

File

FROM:

TSS, Inc.

SUBJECT:

Tank & Foundations Analysis

DISTRIBUTION:

Analysis of Wastewater Tanks Installation

1. Background

Wastewater collected in the Baerlocher process contains organic mineral spirits and levels of cadmium. barium, and zinc which result in a hazardous waste classification. Tanks #213, 214 were installed in 1990 to separate the organic fractions and treat the wastewater to remove metals. #341 Tank was installed in 1998. #214 Tank had been used to add sodium hydroxide and acid, then the water was filtered to remove the precipitated metals. However, the treated wastewater still had residual metals higher than the threshold, and was still classified as hazardous waste. The treatment portion of the process was subsequently abandoned, and the filter press has been isolated from the system. The three tanks are still in service, but other than the decant step in #213, there is no further treatment being done. #213 Tank is used to decant the organics from the wastewater, and #341 is the storage/collection tank. The decanted wastewater is slightly all:taline, at about 3.0-8.5 pH. Due to the fact that the original design called for exposure to acid, alkali, and organics, the materials of construction of the tanks was selected accordingly. #213 Tank in vertical cylindrical with a cone bottom and flat top. It is supported by four legs. Canacity is 60 gallors (2 it di. meter x 3.33 ft straight side), and is constructed of 304 stainless steel. The shell, top head and cone bonom are 1/2" thick. Design was ambient temperature and atmospheric pressure, #214 Tank is vertical cylindrical with flat top and bottom heads. The tank sets on a concrete pad. Capacity is 1260 collons (2 ft cometer), 5 a staight side), and is constructed of carbon steel with 16 mil Plasite "710 coal far coary lining. The shall thickness was not indicated in the file drawings, but it was indicated there was a 1/16" corrosion allowance included for design at ambient temperature and atmospheric pressure. 134) Tauly is vertical cylindrical with dome top and that bettom. It also saw on a constate pad. Capacity he -500 gallone (7.90 ft diameter x 11.6 if straight side), and in constructed of LIDPE (high density polyethy's re). Shell thickness not indicated on crawing, but documentation indicates the tank via lies) used for 1,5 specific gravity liquid, amorphytic pyssure and capient competatore. All they trule me located in Building \$1, and we alst on concrete building stabl^aom actions. As we'r tiene is no emosure of the faults to soil conditions, and there is no exposure to amougheric corrosine or additions within the railding.

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D. PELEHLER E.
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II. Piping and pump systems

In considering the pipir.g/pump system, consideration must be given to the treatment process (discontinued), which utilized acid and caustic in Tank #214. In reviewing this, TSS recommends replacing the outlet 2" diaphragm valve and the inlet elbow fitting on top of #214 (where effluent from Tank #213 enters). These items are either of carbon steel or of unknown condition. TSS inspected the remainder of the piping/pump systems and these systems are suitable for the containment of the wastewater based on visual inspection, prior service, and the compatibility of the piping with the chemicals exposure (past and present).

III. Tank and Foundations Evaluations

These tanks will hold the wastewater material prior to loadout and disposal as hazardous waste. The analysis of the decanted wastewater indicates there are no corrosive qualities to this effluent. This was confirmed in field observations: the tanks are in very good condition, with no sign of corrosion, cracks, etc. Inspection of the existing concrete floor slab and tank foundations revealed no defects (i.e.- cracks) and no leakage points. There are no visible defects on the tanks: all of the tanks described herein contain materials of construction that are corrosion resistant to the wastewater.

IV. Conclusions

In reviewing the #213, 214, and 341 tank construction and installation, concrete foundations, and proposed operating conditions, TSS Engineering is satisfied that these tanks and supporting concrete foundations/slab are suitable for the proposed wastewater storage. The piping/pump systems are in good condition, with no defects or leaks. The elbow and valve cited in section II should be replaced with PVC. There are no external corrosive conditions to the tanks or concrete structures. Prior to any changes in operating conditions (i.e. - chemical treatment to remove metals), the lining in #214 Tank and the #379 Pump should be inspected.

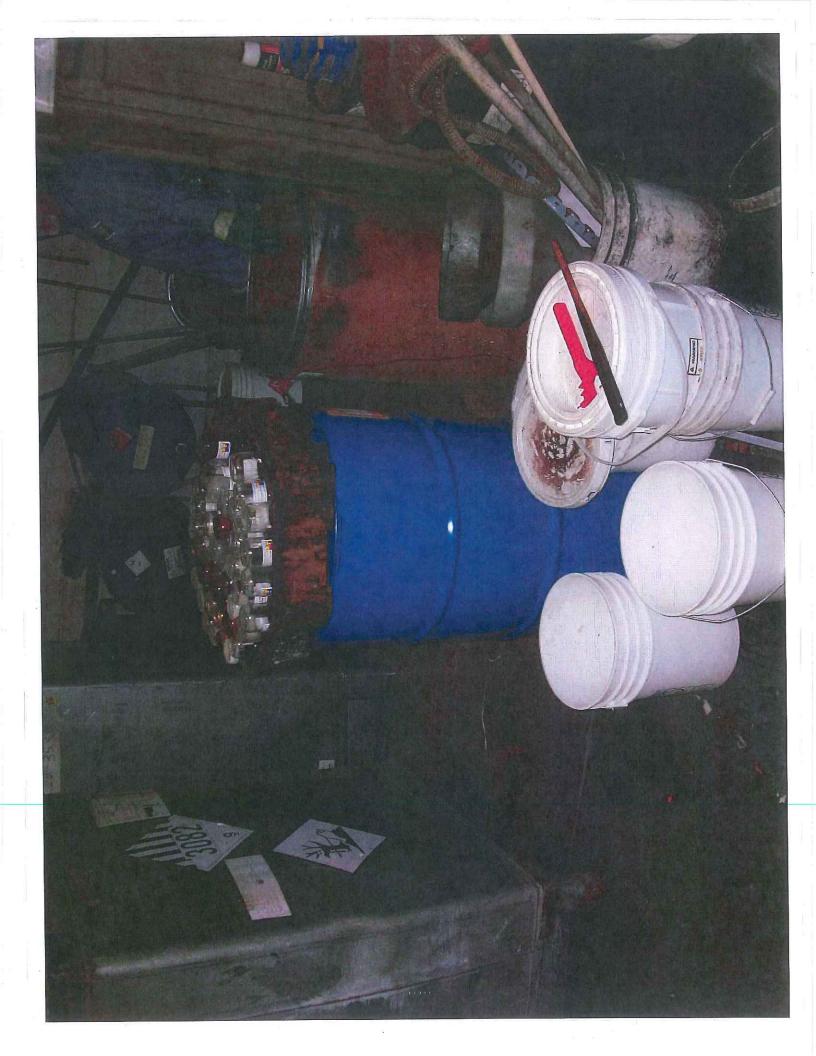


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Baerlocher USA, LLC OHR000031567 August 4, 2015

ATTACHMENT E: Follow-Up Documents

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Filter Care



LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: BAERLOCH 3676 DAVIS		
Manifest: .		
#K50 g/C	val: DF051580 NWW	
Hazardous Constituer		
Subcategory Certificati	on: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE APPLICABLE STANDARD.	i-t-
	This waste must be treated to the applicable performance based treatment standard set forth in 40CFR Pa 268 Subpart C and Subpart D; 268.40 or RCRA Section 3004(d) prior to land disposal.	11.
I hereby certify that all in knowledge and informat Generator Signature: Printed Name:	Information submitted on this and all associated documents, is complete and accurate to the best of my sion. Title: Rector of Os Date: 9015-06-04	

Liquid Waste



LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator: BAERLOCHER U.S.A. 3676:DAVIS RD	U,S. EPA 10 No.: OHR000031567
Manifest	
Page - Line 1-01 Approval: IM056420	NŴŴ
Waste Code(s): D001 D005 D006	•
Hazardous Constituents: NONE	•
Subcategory(s): D001 - High TOC Ignitable Characteristic Liquids Subcategory	
Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE This waste must be treated to the applicable performance based .266 Subpart C and Subpart D, 268:40 or RCRA Section 3004(d)	treatment standard set forth in 40CFR Pert
I hereby certify that all information submitted on this and all associated documents, is complete knowledge and information. Generator Signature: Printed Name: Date:	Director of Ops 20150604

Ignitable Characterstic



LAND DISPOSAL RESTRICTION AND CERTIFICATION FORM

Generator:	BAERLOCHER U.S.A.	O'S' ENA ID NOT CIULGOCO (SOL
;	3676 DAVIS RD	
Manifest:		and the second s
Page - Line	A	NWW
1-01	Approval: IM055429	
V	Vaste Code(s): D001 D005 D006	
Hazardous	Constituents: NONE	
Si	ubcategory(s): D001 - High TOC ignifable Characteristic Liquids Subcategory	
	Certification: THIS RESTRICTED WASTE REQUIRES TREATMENT TO THE	APPLICABLE STANDARD.
	This waste must be treated to the applicable performance based 268 Subpart C and Subpart D, 268.40 or RCRA Section 3004(d)	treatment standard set forth in 40CFR Part
I hereby cen	tify that all information submitted on this and all associated documents, is comple	te and accurate to the best of my
knowledge a	and information.	\mathcal{O}
Generator	Signature: Title:	Virtor Ot Ups
2002	nted Larry A Tradel Date;	2015 0904

. Identify ALL E	BARRICCHER USA VH5406 U non-waskewater or wastewater?	Manifest Boc. No. : State Manifest No!		
L. In this wester.	a non-wastewater or wastewater?		and the contract of the contra	
. Identify ALL E		to the second of		
treatment star	the corresponding subcategory, dards are listed on the followi	I take to this waste shippent, as defined to apply to this waste shippent, as defined to refrech the maste code has no suting page. If P039, multi-source leachest apply If D031-p043 requires treatment of the chair in the superior of the chair applications to the chair applications of the chair applicati	category. Spent plles, those con recteristic	solvent stituents
3. US EPA HAZARDOUS	The second secon	4. Subcategory Buter the Subcategory Description. IP NOT APPLICABLE, SIMPLY OFFICE HORE	ing (Parket Angelogia in Taramana)	5. How must the waste be kanagedt
REY HASTE (CODE S)	Commission of the Commission o	PROFITE NOTIFIED	RHOR	HATTEL RATHE L NOLME MORE
1 0005	CHA, CLASS I MANAGED			λ
2 2025	CHA, ELASS 1 HAWAGED	,) A
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a		xdous constituent(s), use the *F039/Underly		
If no UNCs are To list addition and check beto:	nal DSEPA wests code(s) and sub-	in an areas note: milical generation shock here: X contegorie(s), use the supplemental sheet pr here Lunder the CMA, or a Class 1 injection well		i
This waste mu For Heardous 1 RESTRICTED WA- *I cortify un- ation of the immadiately re- tained proper of the prohib- is madiately re- tained proper of the prohib- is cortify un- of the treatment of the responsible for the proper of the treatment of the standards when the possibility and complete.	Debries "This hazardous dearis the risk thereof to response used to support segments of law that I have a treatment process used to support segments for obtaining this if yer as to comply with the tractice of the response	personally examined and am familiar with the vertification. Based on my inquiry information. I balieve that the treatment preatment standards epacified in 40 GPR 155.40 res significant penelties for submitting a bomant." MREATHD ORGANICS personally examined and am familiar with the standard present of the contification. Based on my inquiry of the contification. Fased on my inquiry of the contification. Including the contification of the season in the contification, including the contification are selected. I have been unable to determine a false certification, including the contition of a false certification, including the contification with the contification of fine and imprisonment. The ment standards. I am aware that there are the possibility of fine and imprisonment. The ment standards are described in the contification and believe that it has been efficient penalties for submitting a fair variance, a treatability variance, or a canous. I subject to the olternative treatment standards examined and am familiar with the same of the continuation of the support this certification that the waste of the continuation of the support this certification that the waste of the continuation of the submitting a false can efficient penalties for submi	e treatment technical individuals in the continuation of those individuals in the continuation of the cont	nology and oper tuels a sible dilution mainstand and mainstand and mainstand and mainstand and oper tuels from the constituents to the store operated proper in including the store that the store the store that the st
		in this and all associated documents is com		

BOLVENT

If the wests identified on the first page of this form is described by any of the following USEPA hazardous wasta codes: FD01, FD02, FD03, FD04; FE05, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the pravious page of this form. If the wests code F039 describes this wasts, then the corresponding list of constituents must be attached, if D001-D041 require treatment to 258.68 standards, then the underlying hearing of the constituent(s) must also be attached.

	Solvent haste treatmen	2 T. STANDARDS	
FOOL through FOUS apont sol- rent constituents and their associated VSSSA hazardous	Treatment Standard	FGG1 through FGG5 spent col- vent constituents and their associated USEPA haraxdous	Treatment Standard
waste code(n).			Westowaters Honwastewaters

All spant solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/L, nonwastewater are mg/kg.

For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 50% reduction of constituents or less than 15 % the standards listed.

SUBCATEGORY REFERENCE

DOUL!

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(s) (1) High TOC subcategory.

8. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(s) (1) - Greater than or equal to 16% total organic carbon.

1990 Chemical Waste Management , Inc. - 08/99 - Form CAN-2005-C

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Baerlocher USA, LLC OHR000031567 August 4, 2015

ATTACHMENT F: Inspection Checklists

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Bac	rlocher	USA OHRO00031567 8/4/2015 LARGE QUANTITY GENERATOR REQUIREMENTS			<u></u>	
		LARGE QUANTITY GENERATOR REQUIREMENTS	3			
Wavesta		COMPLETE AND ATTACH A PROCESS DESCRIPTION SU			and the second second second	
CESQ	(G: ≤100	Kg. (Approximately 25-30 gallons) of waste in a calendar month or < 1 K	g. of ac	utely	hazardous wa	iste.
		100 and 1,000 Kg. (About 25 to under 300 gallons) of waste in a calend				
LQG:	≥ 1,000 ł	Kg. (~300 gallons) of waste in a calendar month or ≥1 Kg. of acutely haza	ardous v	waste	in a calendar	month.
NOTE	: To con	vert from gallons to pounds: <u>Amount in gallons x Specific Gravity x 8.345</u>	= Amo	unts i	<u>in pounds</u> .	
Safety	y Equipm	ent Used:				
GENE	ERAL RE	QUIREMENTS	-	/	The state of the state of the state of	
1.	52-11]	wastes generated at the facility been adequately evaluated? [3745-	Yes	र र	No □ N/A	
2.	Are rec 40(C)]	ords of waste determination being kept for at least 3 years? [3745-52-	Yes	ऻ ।	No 🔳 N/A	
3.	Has the	generator obtained a U.S. EPA identification number? [3745-52-12]	Yes	Ø	No 🔳 N/A	
4.		iennial reports filed with Ohio EPA on or before March 1 st ? [3745-52- filed on even years for previous year)	Yes	ত	No □ N/A	
5.	Are bie	nnial reports kept on file for at least 3 years? [3745-52-40(B)]	Yes	ত	No □ N/A	
6.	Has the to other 3734.0	e generator transported or caused to be transported hazardous waste ir than a facility authorized to manage the hazardous waste? [ORC 2(F)]	Yes		No 🗹 N/A	
7.	at anot	e generator disposed of hazardous waste on-site without a permit or her facility other than a facility authorized to dispose of the hazardous [ORC 3734.02(E)&(F)]	Yes		No N/A	
8.	Does t	ne generator accumulate hazardous waste?	Yes	Q	No □ N/A	
NOT	E: If the	LQG does not accumulate or treat hazardous waste, it is not subject to 5	2-34 st	andar	rds. All other	
requi	irements	still apply, e.g., annual reports, manifest, marking, record keeping, LDR,	etc.	Para terra t		
9.	Has th withou	e generator accumulated hazardous waste on-site in excess of 90 days tapermit or an extension from the director ORC §3734.02(E)&(F)?	Yes		No 🗹 N/A	
NOT	E: If FOO	6 waste is generated and accumulated for > 90 days and is recycled see	3745-	52-34	4(G)&(H).	
10.	Does t	he generator treat hazardous waste in a: [ORC 3734.02(E)&(F)]				
	a.	Container that meets 3745-66-70 to 3745-66-77?	Yes		No. □ N/A	ф
	b.	Tank that meets 3745-66-90 to 3745-66-100 except 3745-66-97(C)?	Yes		No □ N/A	
	C.	Drip pads that meet 3745-69-40 to 3745-69-45?	Yes		No □ N/A	4

Facility Name/Inspection Date]
[ID Number]
LQG Checklist / April 2014
Page 1 of 12

					4	
	d.	Containment building that meets 3745-256-100 to 3745-256-102?	Yes		No ∷NA	Ŋ
NOTE	: Com	plete appropriate checklist for each unit.			Line Control Distriction Control	
NOTE	: If wa	ste is treated to meet LDRs, use LDR checklist.				
11.	Does	the generator export hazardous waste? If so:	Yes		No ☑ N/A	
	a.	Has the generator notified U.S. EPA of export activity? [3745-52-53(A)]	Yes		No 📋 N/A	
	b.	Has the generator complied with special manifest requirements? [3745-52-54]	Yes		No II N/A	4
	c.	For manifests that have not been returned to the generator: has an exception report been filed? [3745-52-55]	Yes		Ño ⊡ N/A	
	d.	Has an annual report been submitted to U.S. EPA? [3745-52-56]	Yes		No 🖽 N/A	ф
	e.	Are export related documents being maintained on-site? [3745-52-57(A)]	Yes		No □ N/A	ф
MANI	FEST	REQUIREMENTS				
12.	1	all hazardous wastes shipped off-site been accompanied by a est? (U.S. EPA Form 8700-22) [3745-52-20(A)(1)]	Yes	Ø	No 🗆 N/A	
13.		items (1) through (20) of each manifest been completed? -52-20(A)(1)]&[3745-52-27(A)]	Yes	ਭ	No 🔲 N/A	
1		EPA Form 8700-22(A) (the continuation form) may be needed in addition ms (21) through (35) must also be completed. [3745-52-20(A)(1)]	to For	m 87	00-22. In these	.
14.	1	each manifest designate at least one facility which is permitted to e the waste? [3745-52-20(B)]	Yes	図	No □ N/A	
		generator may designate on the manifest one alternate facility to handle to which prevents the delivery of waste to the primary designated facility. [37-				
15.	desigi give ti	transporter was unable to deliver a shipment of hazardous waste to the nated facility, did the generator designate an alternate TSD facility or he transporter instructions to return the waste? [3745-52-20(D)]	Yes		No □ N/A	Þ
16.		the manifests been signed by the generator and initial transporter? -52-23(A)(1)&(2)]	Yes	回回	No 📋 N/A	
		ind the generator that the certification statement they signed indicates: 1) transportation and 2) they have a program in place to reduce the volume				
17.		generator received a rejected load or residue, did the generator:				
	a.	Sign item 20 of the new manifest or item 18c of the original manifest?	Yes		No 📋 N/A	Д
						

	1	[3745-52-23(F)(1)				à
	b.	Provide the transporter a copy of the manifest? [3745-52-23(F)(2)]	Yes		No □ N/A	中
	C.	Send a copy of the manifest to the designated facility that returned the shipment with 30 days after delivery of the rejected shipment? [3745-52-23(F)(3)]	Yes		No □ N/A	+
18.	withi gene	generator did not receive a return copy of each completed manifest in 35 days of the waste being accepted by the transporter, did the erator contact the transporter and/or TSD facility to check on the status of waste? [3745-52-42(A)(1)]	Yes		No 📋 N/A	4
19.	If the	generator has not received the manifest within 45 days, did the erator file an exception report with Ohio EPA? [3745-52-42(A)(2)]	Yes		No 🗆 N/A	Á
20.		signed copies of all manifests and any exception reports being retained t least three years? [3745-52-40]	Yes	Q	No □ N/A	2
and i	ranspe nsfer f	treatment on a contiguous property also owned by the same person is not order requirements must be met. To transport "along" a public right-of-way acility or have a permit because this is considered to be "off-site." For adding In OAC rule 3745-50-10.	the de	stina	tion facility has t	o act as
		EL TRAINING			/	
21.	Doe	es the generator have a training program which teaches facility personnel ardous waste management procedures (including contingency plan lementation) relevant to their positions? [3745-65-16(A)(2)]	Yes	V	No NA	
22.	ens invo em 65-	es the personnel training program, at a minimum, include instructions to ure that facility personnel are able to respond effectively to emergencies olving hazardous waste by familiarizing them with emergency procedures, ergency equipment and emergency systems (where applicable)? [3745-16(A)(3)]	Yes			
requ	ired to	or facility employees that receive emergency response training pursuant to provide separate emergency response training, provided that the overall that of OAC 3745-65-16(A). [3745-65-16(A)(4)]	OSHA acility	regu traini	lations, the facil ng meets all the	ity is not
23.	ls t	ne personnel training program directed by a person trained in hazardous ste management procedures? [3745-65-16(A)(2)]	Yes	S [V	No INA	
24.		new employees receive training within six months after the date of hire (or signment to a new position)? [3745-65-16(B)]	Yes	S [2	No 🗆 NA	

						/:	
25.	perio	the generator provide refresher training to er d from January 1 st to December 31 st and does	s each training occur within	Yes	区	No □ N/A	Ó
	15 m	onths after the previous training? [3745-65-16	S(C)]				
26.	Does	the generator keep records and documentation	on of:				
	a.	Job titles? [3745-65-16(D)(1)]	<u> </u>	Yes	g	No 📋 N/A	Π.
***************************************	b.	Job descriptions? [3745-65-16(D)(2)]		Yes	IJ∕	No □ N/A	
	C.	A written description of the type and amoun continuing training that will be given to each	person filling a position	Yes	ব্ৰ	No 🗍 N/A	
		listed under paragraph (D)(1) of this rule? [3	3745-65-16(D)(3)]			/	
	d.	Completed training or job experience require	ed? [3745-65-16(D)(4)]	Yes	₽′	No∞ □ N/A	
27.	are tr	aining records for current personnel kept unti aining records for former employees kept for ate the employee last worked at the facility? [at least three years from	Yes	B	No 🗀 N/A	
NOT		following section can be used by the inspecto		nnel wł	no are	e involved with	
L		vaste management have been trained. The e		-			-
		ollowing: environmental coordinators, drum h vaste inspections, emergency response team.	and the second s	-		nnei wno conau	GI '
Job	Perform	ed	Name of Employee			Date Traine	ed_
			,				
					<u> </u>		···
CON	ITINGE	NCY PLAN			<u> </u>		
28.		the owner/operator have a contingency plan	to minimize hazards to	Yes	☐	No 🔲 N/A	
		in health or the environment from fires, exploses se of hazardous waste? [3745-65-51(A)]	sions or any unplanned				_
29.	Does	the plan describe the following:	***************************************				
	a.	Actions to be taken in response to fires, exprelease of hazardous waste? [3745-65-52(A		Yes	ব্ৰ	No 🛅 N/A	
	b.	I control of the cont			·/-	Service Charge Contract	<u> </u>
		Arrangements with emergency authorities?	[3745-65-52(C)]	Yes	Ø	No ☐ N/A	L
	C.	Arrangements with emergency authorities? A current list of names, addresses and telephome) of all persons qualified to act as emergarded and the control of	phone numbers (office and	Yes Yes	<u>d</u>	No E N/A	
**************************************	c.	A current list of names, addresses and telephome) of all persons qualified to act as eme	ohone numbers (office and ergency coordinator?		<u>च</u>		

		*		/	/		
	e.	An evacuation plan for facility personnel where there is possibility that evacuation may be necessary? [3745-65-52(F)]	Yes	Ū∕	No 🔲 N/	Silver	
other suffic requi	emerge ient to c rements	facility already has a "Spill Prevention, Control and Countermeasures Placency plan, the facility can amend that plan to incorporate hazardous waste comply with OAC requirements. The facility may develop one contingency on the "National Resporate (One Plan)." [3745-65-52(B)]	manag plan w	geme vhich	nt provisions meets all reg	s tha gula	it are tory
30.	emer	opy of the plan (plus revisions) kept on-site and been given to all gency authorities that may be requested to provide emergency services? -65-53(A)&(B)]	Yes	8	No E N	'A	
31.	Has t equip	ne generator revised the plan in response to rule changes, facility, ment and personnel changes, or failure of the plan? [3745-65-54]	Yes	Ū∕	No 🔲 N	/A	
32.	Is an 65-55	emergency coordinator available at all times (on-site or on-call)? [3745- i]	Yes	d	No 🗀 N	/A	
all op reco	eration rds with	emergency coordinator shall be thoroughly familiar with: (a) all aspects of s and activities at the facility; (c) the location and characteristics of waste in the facility; (e) facility layout; and (f) shall have the authority to commit t f the contingency plan.	handle	d; (d)	the location	of a	III
EME		CY PROCEDURES					- Comment
33.	Has t	there been a fire, explosion or release of hazardous waste or hazardous e constituents since the last inspection? If so:	Yes		No 🖾 N	I/A	
	a.	Was the contingency plan implemented? [3745-65-51(B)]	Yes		No. 🗀 N	I/A	þ
51	b.	Did the facility follow the emergency procedures in 3745-65-56(A) through (H)?	Yes		No □ N	I/A	4
	C.	Did the facility submit a report to the Director within 15 days of the incident as required by 3745-65-56(I)?	Yes	П	No □ N	I/A	d .
expl	TE: OA losion, d ironmen	C 3745-65-51(B) requires that the contingency plan be implemented imme or release of hazardous waste or hazardous waste constituents, which cou t.	ediately ild thre	whe	never there human healt	is a h an	fire, od the

					 	
PREF	ARED	NESS AND PREVENTION			, i .	
34.	I	facility operated to minimize the possibility of fire, explosion, or any nned release of hazardous waste? [3745-65-31]	Yes	v	No [] N/A	
35.		the generator have the following equipment at the facility, if it is required actual hazards associated with the waste:	1			
,	a.	Internal communications or alarm system? [3745-65-32(A)]	Yes	ď	No E N/A	
	b.	Emergency communication device? [3745-65-32(B)]	Yes	□⁄	No □ N/A	
	C.	Portable fire control, spill control and decon equipment? [3745-65-32(C)]	Yes	<u> </u>	No 🗖 N/A	
	d.	Water of adequate volume/pressure per documentation or facility rep? [3745-65-32(D)]	Yes	d	No E N/A	
NOTE	: Verit	y that the equipment is listed in the contingency plan.				
36.	ls em	ergency equipment tested (inspected) as necessary to ensure its proper tion in time of emergency? [3745-65-33]	Yes	g	No 🗓 N/A	
37.	ı	mergency equipment tests (inspections) recorded in a log or summary? -65-33]	Yes	Q	No ∐ N/A	
38.	comm	ersonnel have immediate access to an internal alarm or emergency nunication device when handling hazardous waste (unless the device is quired under 3745-65-32)? [3745-65-34(A)]	Yes	Q	No 🔲 NA	
39.	device extern	e is only one employee on the premises, is there immediate access to a e (eg. phone, and hand held two-way radio) capable of summoning hal emergency assistance (unless not required under 3745-65-32)? -65-34(B)]	Yes	IJ	No 📋 N/A	
40.	1	equate aisle space provided for unobstructed movement of emergency II control equipment? [3745-65-35]	Yes	ত্র	No El N/A	
41.	1	ne generator attempted to familiarize emergency authorities with ple hazards and facility layouts? [3745-65-37(A)]	Yes	Q	No E N/A	
42.		e authorities have declined to enter into arrangements or agreements, ne generator documented such a refusal? [3745-65-37(B)]	Yes		No 🗀 N/A	þ
SATE	LLITE	ACCUMULATION AREA REQUIREMENTS				
43.	Does	the generator ensure that satellite accumulation area(s):				
	a.	Are at or near a point of generation? [3745-52-34(C)(1)]	Yes	g	No 📋 N/A	

	b.	Are under the control of the operator of the process generating the waste? [3745-52-34(C)(1)]	Yes		No 🔲 N/A	
	C.	Do not exceed a total of 55 gallons of hazardous waste per waste stream? [3745-52-34(C)(1)]	Yes	<u>a</u>	No □ N/A	
	d.	Do not exceed one quart of acutely hazardous waste at any one time? [3745-52-34(C)(1)]	Yes	0	No 🔲 N/A	
	e.	Containers are closed, in good condition and compatible with wastes stored in them? [3745-52-34(C)(1)(a)]	Yes		No 🗆 N/A	
	f.	Containers are marked with words "Hazardous Waste" or other words identifying the contents? [3745-52-34(C)(1)(b)]	Yes	Dind	No. ☑ N/A	
44.	Is the	Bucket of lab samples not labeled -> later added to \$50 e generator accumulating hazardous waste(s) in excess of the amounts in the preceding question? If so:	Yes		No 🗹 N/A	
	a.	Did the generator comply with 3745-52-34(A)(1) through (4) or other applicable generator requirements within three days? [3745-52-34(C)(2)]	Yes	3	No □ N/A	
	b.	Did the generator mark the container(s) holding excess with the accumulation date when the 55 gallon (one quart) limit was exceeded? [3745-52-34(C)(2)]	Yes	র্ত্ত	No □ N/A	
gene acute gene	eration e hazai eration.	e satellite accumulation area is limited to 55 gallons of hazardous waste act in the process under the control of the operator of the process generating t rdous waste). There could be individual waste streams accumulated in an	he was area fr	ste (le	ess then 1 quart	for
	AND	MANAGEMENT OF CONTAINERS IN <90 DAY ACCUMULATION AREA	100000000000000000000000000000000000000		/	F 724/25
45.	[374	the generator marked containers with the words "Hazardous Waste?" 5-52-34(A)(3)]	Yes		No □ N/A	
46.	clea	date upon which each period of accumulation and/or treatment begins is rly marked and visible for inspection on each container? 45-52-34(A)(2)]	Yes	g	No □ N/A	
47.	Are	hazardous wastes stored in containers which are:				1
	a.	Closed (except when adding/removing wastes)? [3745-66-73(A)]	Yes	☑	No □ N/A	
	b.	In good condition? [3745-66-71]	Yes	g	No □ N/A	П
	C.	Compatible with wastes stored in them? [3745-66-72]	Yes	· 🗹	No □ N/A	
	d.	Handled in a manner which prevents rupture/leakage? [3745-66-73(B)]	Yes	: ত্র	No 🗀 N/A	

Facility Name/Inspection Date]
[ID Number]
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NOTE: Record location on process summary sheets, photograph the area, and record on facility map.										
	Is the container accumulation areas(s) inspected at least once during the	·····		<u></u>						
48.	, , ,	Yes	\preceq	No 🗊 N/A						
	period from Sunday to Saturday? [3745-66-74]									
	a. Are inspections recorded in a log or summary? [3745-66-74]	Von		No [] N/A						
	a. Ale inspections recorded in a log or summary: [0740-00-74]	Yes	\square	NO LINA						
49,	Are containers of ignitable or reactive wastes located at least 50 feet (15	Vos		NEW TOTAL						
49,	meters) from the facility's property line? [3745-66-76]	Yes	☑	No TEN/A						
	meters) from the facility's property file? [3743-00-70]									
50.	Are containers of incompatible wastes stored separately from each other by	Yes	П	No 👩 N/A	Z					
00.	means of a dike, berm, wall or other device? [3745-66-77(C)]	100	اسا	NV III WA	124.					
				MACHINE MINER						
51.	If the generator places incompatible wastes, or incompatible wastes and	Yes		No 📋 N/A	Ď					
J	materials in the same container, is it done in accordance with 3745-65-17(B)?	100	ш		ĽΧ					
	[3745-66-77(A)]			rapidly (man the street, was in						
	[0140-00-11(7)]									
52.	If the generator places hazardous waste in an unwashed container that	Yes		No [] N/A	Z					
J	previously held an incompatible waste, is it done in accordance with 3745-65-	, 00	ш		177					
	17(B)? [3745-66-77(B)]			(359)74((457-25)						
	[[[[[[[[[[[[[[[[[[[
MOTE: OAC 37/5-65-17/RI requires that the generator treat, store, or dispose of ignitable or reactive waste, and the										
NOTE: OAC 3745-65-17(B) requires that the generator treat, store, or dispose of ignitable or reactive waste, and the										
mixture or commingling of incompatible wastes, or incompatible wastes and materials so that it does not create										
		so that	it do	es not create						
undes	sirable conditions or threaten human health or the environment.	T		No. Sant College State	<u> </u>					
	sirable conditions or threaten human health or the environment. If the generator has closed a <90 day accumulation area does the closure	so that Yes		es not create No ⊑ N/A	Þ					
undes	sirable conditions or threaten human health or the environment. If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-	T		No. Sant College State	Á					
undes	sirable conditions or threaten human health or the environment. If the generator has closed a <90 day accumulation area does the closure	T		No. Sant College State	Þ					
undes	sirable conditions or threaten human health or the environment. If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-	T		No. Sant College State	Þ					
undes	sirable conditions or threaten human health or the environment. If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-	T		No. Sant College State	Q .					
undes 53.	irable conditions or threaten human health or the environment. If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)]	Yes		No E NA	netreta					
undes 53.	If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] E: Please provide a description of the unit and documentation provided by the ge	Yes nerato	□ r for	No. □ N/A						
undes 53. NOTE that c	If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] E: Please provide a description of the unit and documentation provided by the gelosure was completed in accordance with the closure performance standards. If	Yes nerato	□ r for nerat	No. I N/A the file to demo	<90 day					
NOTE that cl	If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] E: Please provide a description of the unit and documentation provided by the ge	Yes nerato	□ r for nerat	No. I N/A the file to demo	<90 day					
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NOTE that could tank, (34]	If the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] E: Please provide a description of the unit and documentation provided by the gelosure was completed in accordance with the closure performance standards. If closure must also be completed in accordance with OAC 3745-66-97 (except for TRANSPORT REQUIREMENTS Does the generator package/label its hazardous waste in accordance with the	Yes nerato the gen paragn	□ r for nerat	No NA the file to demoior has closed a C of this rule). [<90 day 3745-52-					
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NOTE that co tank, (34] PRE-54.	lf the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] E: Please provide a description of the unit and documentation provided by the gelosure was completed in accordance with the closure performance standards. If closure must also be completed in accordance with OAC 3745-66-97 (except for TRANSPORT REQUIREMENTS Does the generator package/label its hazardous waste in accordance with the applicable DOT regulations? [3745-52-30, 3745-52-31 and 3745-52-32(A)] Does each container ≤119 gallons have a completed hazardous waste label? [3745-52-32(B)]	Yes nerato the ger paragr	r for neration	No. INA the file to demoisor has closed a C of this rule). [3	<90 day 3745-52-					
NOTE that co tank, (34] PRE-54.	lf the generator has closed a <90 day accumulation area does the closure appear to have met the closure performance standard of 3745-66-11? [3745-52-34(A)(1)] E: Please provide a description of the unit and documentation provided by the gelosure was completed in accordance with the closure performance standards. If closure must also be completed in accordance with OAC 3745-66-97 (except for TRANSPORT REQUIREMENTS Does the generator package/label its hazardous waste in accordance with the applicable DOT regulations? [3745-52-30, 3745-52-31 and 3745-52-32(A)] Does each container ≤119 gallons have a completed hazardous waste label?	Yes nerato the ger paragr	r for neration	No. INA the file to demoisor has closed a C of this rule). [3	<90 day 3745-52-					
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			GENERATOR LDR CHECKLIST DOES NOT APPLY TO CESQGS					
CENED	AL REQU	IIDEM				-		
1.	If LDRs	do no was g	t apply, does the generator have a statement that lists how generated, why LDRs don't apply and where the HW went?	Yes		No	□ N/A	þ
2.	Did the	gener ent star d. [374	ator determine if the HW/soil must be treated to meet the LDR ndard prior to disposal? Generator knowledge or testing may 5-270-07(A)(1)) If not.	Yes	Ø	No	□ N/A	
	a.	Did the facility	e generator send the waste to a permitted HW TREATMENT ? [3745-270-07(A)(1)]	Yes	g/		□ N/A	
treatme determi 3745-27	nt standa nation is 1 70-49 (alt	rd in 3 require ernativ	determining if the HW /soil contains levels of constituents greater 745-270-40. However, if a specific treatment method is given in a [3745-270-07(A)(1)(b)]. If soil, generator can choose to have set treatment levels for soils).	3745-2 soil tre	210-4	to LDI	ne Hvv, n R levels g	o iven in
3	HW/so	il meel 270-07	nerator have documentation of how he determined whether the its or does not meet the LDR treatment standard in 2, above? (A)(6)(a) or 3745-270-07(A)(6)(b)]	Yes	M	JVO		
4.	Does to	he ger east th treatn	nerator keep the documentation required in #2, above, on-site ree years from the last date the HW/soil was sent on-site/off-nent/disposal? [3745-270-07(A)(8)]	Yes	Ø	No	□ N/A	
5.	Does t	he ger	nerator generate a listed HW that exhibits a characteristic? If	Yes		No	☑ N/A	
	a,	that is	e generator determine if the listed HW exhibits a characteristic snot treated under the LDR treatment standard for the listed [3745-270-09(A)]	Yes		No	□ N/A	Z
FOR EX	XAMPLE	F006	that exhibits the characteristic for silver or K062 that is corrosive, to determine what constituents the listed HW is treated for.	, D002	. Re	view L	.DR treati	ment
6.	Did th	e gene	erator determine if its characteristic HW contains underlying onstituents that need to be treated? [3745-270-09(A)]	Yes			□_N/A	
univers	al treatm	ent sta	evaluating which underlying hazardous constituents (UHC) are indards given in 3745-270-48. This requirement does not apply to 2001 wastes or listed HWs.	n the I o high	∃W a total	t levei organ	s above t ic carbon	he (i.e.,
NOTE:	Written o	locume	entation of this determination is not required.					
7.	Did th stand		erator treat his HW /soil on-site to meet the LDR treatment	Yes		No	☑ N/A	
NOTE:	If "Yes" s	see qu	estion #16.					
8.	Did th	e gene nipmer	erator send a one-time LDR notification form to the TSD with the nt to that facility? [3745-270-07(A)(2)]	Yes	2000	No	□ N/A	. 🗆
	a.	waste	generator chose not to make the determination of whether his e must be treated, did he send a notice to the TSD facility with shipment? [3745-270-07(A)(2)] If so, did the notice include:	Yes			□ N/A	ď
		i	Applicable HW codes?	Yes		No	□ N/A	1
		ii	Manifest number of the first shipment to the TSD?	Yes	П	No	□ N/A	ф
		iii	A statement that conveys that the HW may or may not be subject to the LDR treatment standards and the TSD must make that determination."?	Yes		111.52.000	. □ N/A	d

						/							
9.			rator resubmit the LDR notification form to the TSD when the or the generator used a new TSD? [3745-270-07(A)(2)]	Yes		No		N/A					
10.			nerator have a copy of the LDR notification form/notice on file? (A)(2)] LDR notifications for certain wastes not on -size	Yes		No	₫.	N/A					
	a.	Is the	form/notice kept on file for three years after last HW shipped? -270-07(A)(8)]	Yes		No	9	N/A					
NOTIFIC	NOTIFICATION FORM												
11.	Does	the LDI	R Notification form contain the following information:										
	a.	Manife 07(A)	est number of the first waste shipment to the TSD? [3745-270-(2)]	Yes	D/	No	E	N/A					
	b.	HW if	cable waste codes (includes characteristic codes for a listed applicable)? [3745-270-07(A)(2)]	Yes	Ø	Νō		N/A					
	C.	be tre 07(A)		Yes	ø	No							
	d.		Ignation whether the HW is a wastewater or non-wastewater? -270-07(A)(2)]	Yes	<u> </u>	No		N/A					
NOTE: A wastewater contains <1% by wt. total suspended solids(TSS) and <1% by wt. TOC. If you doubt the HW is a wastewater or non-wastewater, the HW can be tested using for example, Standard Methods (SM) 160.2 for TSS, SW-846 method 9060a for TOC.													
	e.		nation of the waste subcategory when applicable? -270-07(A)(2)]	Yes	☑	No	Ċ	N/A					
NOTE: Subcategories are found on the LDR treatment standards table under the applicable waste code. Not all HWs have subcategories													
	f.	A listii chara	ng of the underlying hazardous constituents for which a cteristic waste must be treated? [3745-270-07(A)(2)]	Yes	ſZ	No		N/A					
NOTE: I	-		the waste is high TOC D001 or the TSD tests its treatment reside	ues for	all u	nderly	ring f	azar	dous				
	g.	form v	HW is F001-F005 or F039, did the generator note on the LDR what solvents or constituents, respectively, the waste contains nust be treated for? [3745-270-07(A)(2)]	Yes		No		N/A	<u>D</u> Z				
NOTE: I	Vot req	uired if	the TSD tests its treatment residues for all underlying hazardous	const	tuen	s.							
PROHIB	ITED D	ILUTIC	ON .					_					
12.			eated by burning?	Yes		No	Q'	N/A					
40	It "No	go to	#15. metal-bearing HW?	37		<u> </u>	F4	NI/A					
13.	is the	HVVai	metal-beating nvv?	Yes	<u> </u>	No		N/A					
			al-bearing HWs contain heavy metals above TCLP levels or were stricted metal-bearing HWs are given in the Appendix to 3745-27		due	to the	pres	ence	of				
14.	а.	Metal	bearing HWs cannot be incinerated, combusted or, blended										
		and b	umed for fuel unless <u>one</u> of the following conditions apply. -270-03(c)]										
		i.	Contains > 1% TOC?	Yes		No		N/A	T T				
		ii.	Contains organic constituents or cyanide at levels greater than the UTS levels?	Yes		No		N/A	P				
		iii.	Is made up of combustible material e.g., paper, wood, plastic?	Yes		No		N/A	ф				

		iv.	Has a reasonable heating value (e.g., > 5000 Btu)?	Yes		No		N/A	þ
		٧.	Co-generated with a HW that must be combusted?	Yes		No		N/A	ф
********************************	b.	impro	esponses to 14 a.i. through 14 a.v. are "No", HW is being perly treated by dilution, violation of 3745-270-03(C). Is HW treated by dilution?	Yes		No	Ø	N/A	
15.	Was t	he HW	treated by wastewater treatment?	Yes		No		N/A	
10	а.	Is a L speci	DR treatment method, other than DEACT or a numerical value, fied for the waste? [3745-270-03(B) and 3745-270-40(A)(3)]	Yes	П	No	3	N/A	
NOTE:	If "Yes"	HW is	improperly being treated by dilution.						
	b.	Does	the waste carry the D001 code and contain ≥10% TOC?	Yes	9	No	8	N/A	
	C.	Does	the wastewater treatment process include a process to rate/recover the organic phase of the waste?	Yes		No	Ò	N/A	þ
generat	or is in v	/iolatio	to b & c are "yes" and "no", respectively, waste is improperly beinn of [3745-270-03(B)] and 3745-270-40(A)(3)].		ited b	y dilu	ition a	and	
NOTE:	A list of	separa	ation/recovery processes are given in 3745-270-42 under RORG						
GENER	RATOR	TREAT	MENT						
16.	Does	the ge	nerator treat to meet LDRs on-site?	Yes		No	☑	N/A	
	drip p	ad or o	erator treat his hazardous waste/soil on-site in a tank, container, containment building to meet the LDR treatment standard?	Yes		No	₫	N/A	
	If "Ye	s"co	mplete the rest of the checklist. If "No"stopyou are done.				10.		
F2	a.	desc	s the generator have a written waste analysis plan (WAP) that ribes the procedures he will follow to treat the HW/soil to the treatment standard? [3745-270-07(A)(5)]	Yes		No		N/A	
10	b.	Did t	he generator use a detailed chemical and physical analysis of IW/soil in order to develop the WAP? [3745-270-07(A)(5)(a)]	Yes		No		N/A	中
NOTE:	This is	a labor	atory analysis but it does not have to be kept by the generator.						
	c.	Does	s the WAP contain all information necessary to treat the HW/soil e LDR treatment standard? [3745-270-07(A)(5)(a)]	Yes		No	П	N/A	Þ
	d.	to de	s the WAP include the testing frequency of the treated HW/soil emonstrate that the LDR treatment standard is being met? 5-270-07(A)(5)(a)]	Yes		200		N/A	The state of the s
47.40 (B. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	e.	Doe	s the generator keep the WAP on-site? [3745-270-07(A)(5)(b)]	Yes		No		N/A	#
	f.	insp	e WAP available for the inspector's review during the ection? [3745-270-07(A)(5)(b)]	Yes		1000	υП	N/A	þ
NOTIF	ICATIO	FOR	M FOR GENERATOR TREATMENT		i.				
17.	a.	Con	tains all information in #11 a-g above and	Yes		No) П	N/A	ф

 b.	1		HW/soil is listednotification contains the following statement:	Yes	Na 📋 N/A	Į.
	am fa knowl comp to 374 are si the po	miliar v ledge o lies wit 45-270 gnifica ossibilit	ler penalty of law that I personally have examined and with the waste, through analysis and testing or through of the waste, to support this certification that the waste in the treatment standards specified in rule 3745-270-40-49 of the Administrative Code. I am aware that there not penalties for submitting a false certification, including by of fine and imprisonment."	·		·
 C.		r a HW	HWV/soil no longer exhibits a characteristic and is no //, did the generator:			
	Ĭ.	Prepa	are a one-time notification? [3745-270-09 (D)]	Yes	No □ N/A	
	ii.	Main	tain a copy of the notice onsite? [3745-270-09(D)]	Yes	No ⊡ N/A	-
	iii,	Inclu	de in the notification: [3745-270-09(D)]		-	
		1.	Name & address of receiving landfill?	Yes	No □ N/A	4
		2.	Description of HW when generated?	Yes	No ⊡ N/A	ф
		3.	HW code when generated?	Yes	No □ N/A	ф
		4.	Treatability group when generated?	Yes	No □ N/A	
		5.	Underlying hazardous constituents present when generated?	Yes	No □ N/A	
	iv.		ain the certification statement as required by -270-07(B)(4)?	Yes	No 🗆 NA	

Ba	erlock	CUSA OHROGO 021567 8/4/2015				
		LQG TANK SYSTEM REQUIREMENTS				
7.8		(OAC rule 3745-52-34(A) and OAC rules 3745-66-90 through	3745-6	6-10	0)	
	se refer	to the rules before or while completing this checklist.)		_/	No T N/A	
1.		n tank clearly labeled/marked with the words "Hazardous Waste?" 52-34(A)(3)]	Yes	M	No □ N/A	
TANK		M - GENERAL OPERATING REQUIREMENTS			3	1
2.	Does	he o/o follow the general operating requirements below:		/	THE WALL CONTROL OF SEC.	
	a.	Does the o/o prevent placement of hazardous waste or treatment reagents in tank or secondary containment if such placement can cause the system to leak, rupture, corrode, or otherwise fail? [3745-66-94(A)]	Yes	B B	No □ N/A	
	b.	Does the o/o use appropriate controls to prevent spills or overflows from the system (e.g., check valves, dry disconnect couplings, high level alarms, etc.)? [3745-66-94(B)]	Yes	Image: section of the content of the con		
	C.	If a leak or spill has occurred in the tank system, has the o/o complied with 3745-66-96? [3745-66-94(C)]	Yes		No □ N/A	Z
TAN	SYST	EM - INSPECTION REQUIREMENTS				
3.	Has th	ne o/o documented the inspections required in 3745-66-95, in the ting record, including inspection of the following:		_/	CONTRACTOR N	
	a.	Data from leak detection equipment each operating day? [3745-66-95(A)]	Yes		No □ N/A	
	b.	Spill control equipment each operating day? [3745-66-95(B)(1)]	Yes	Ø	No □ N/A	
	C.	Above ground portion of tank each operating day? [3745-66-95(B)(2)]	Yes	Ø	No □ N/A	
	d.	Construction materials and area immediately surrounding the tanks for signs of erosion or release of hazardous waste each operating day? [3745-66-95(B)(3)]	Yes	Ø	No □ N/A	
NOT wast		ch operating day" is each day that the tank system is being used to man	age (st	ore o	r treat) hazardo	us
4.	For ta	ank systems using leak detection systems to alert facility personnel to or implementing established workplace practices to ensure leaks are ptly identified, has the o/o documented: [3745-66-95(C)]	Yes		No □ N/A	
	a.	Inspections of spill control equipment weekly?	Yes	لقاً	No □ N/A	
	b.	Inspections of above ground portion of tank weekly?	Yes	O/	No □ N/A	
-	C.	Inspections of construction materials and area immediately surrounding the tanks for signs of erosion or release of hazardous waste weekly?	Yes	☒	No □ N/A	
	d.	Use of the alternate inspection schedule, including a description of the established workplace practices at the facility?	Yes	V	No □ N/A	
5.	o/o d	nncillary equipment NOT provided with secondary containment, has the locumented inspections of such equipment each operating day? [3745-5(E)]	Yes		No □ N/A	Z
6.	Whe	re applicable, did the o/o inspect the cathodic protection system to rm proper operation within six months of initial installation and annually eafter? [3745-66-95(F)(1)]	Yes		No 🗀 N/A	þ
7.	Whe	re applicable, did the o/o inspect all sources of impressed current at bi-monthly? [3745-66-95(F)(2)]	Yes		No □ N/A	Ø

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TANK		EM CLOSURE REQUIREMENTS			/					
8.		o/o has closed a <90 day tank, was closure completed in accordance DAC 3745-66-97 (except for paragraph C)?	Yes	g	No	EL N/A	8			
TANK SYSTEMS STORING IGNITABLE OR REACTIVE WASTES										
9.		inks used to treat or store ignitable or reactive wastes, has the o/o lied with one of the following: [3745-66-98(A)]	Yes		No	EI N/A	. •			
	а.	Is the waste treated immediately after placement in the tank so that the resultant mixture is no longer ignitable or reactive and the o/o has conducted such activities in compliance with 3745-66-17(B)? [3745-66-98(A)]; or	Yes		No	□. N/A				
	b.	Is the waste stored or treated to protect it from materials or conditions which may cause ignition or reaction? [3745-66-98(A)]; or	Yes		No	□ N/A	þ			
	C.	The tank is used solely for emergencies? [3745-66-98(A)]	Yes		No	□ N/A	þ			
10.	maint alleys Comt	table or reactive waste is stored or treated, are protective distances ained between waste management areas and any public streets, or adjoining property lines as required by the NFPA Flammable and bustible Liquids Code (2008)? [3745-66-98(B)]	Yes		No	□ N/A				
11.	syste	ne o/o placed incompatible wastes or materials into the same tank m, or into a tank system that has not been decontaminated and which ously held an incompatible waste or material? [3745-66-99(A) and/or	Yes		No	□ N/A	Ф			
	a.	If so, have the requirements of 3745-65-17(B) been met? [3745-66-99(A) and/or (B)]	Yes		No	□ N/A	þ			
	TANK SYSTEM - WASTE ANALYSIS REQUIREMENTS									
12.	the ta	dition to conducting the waste analysis required by 3745-65-13, when nk system is used to store or treat a waste which is substantially ent or uses a substantially different process than previously used, has o done one of the following: [3745-66-100]	Yes		No-	□ N/A	<i>p</i>			
	а.	Conducted waste analysis and trial treatment or storage tests? [3745-66-100(A)]; OR	Yes		No	□ N/A				
	b.	Obtained written documentation on similar waste under similar operating conditions to show that the proposed storage/treatment will meet the requirements of OAC 3745-66-94? [3745-66-100(B)]	Yes		No	□ N/A	ф			
		EMS REQUIREMENTS		,	<u> </u>	Aviertal				
13.	struct	re a written assessment attesting that the design, installation and ural integrity of the system is adequate for the management of dous waste(s)? [3745-66-92(A)]	Yes	☑′	No	□ N/A				
NOTE were.		should review the file to see if the written assessment has been previou	sly rev	iewe	d and v	what the	results			
14.	Does	the written assessment include the following: [3745-66-92(A)]			/					
	a,	Certification by a qualified professional engineer? [3745-66-92(A)]	Yes	ď	No	□ WA				
	b.	Consideration of the design standards of the system? [3745-66-92(A)]	Yes	g	No	□ N/A				
	C.	Consideration of the hazardous characteristics of the waste(s)? [3745-66-92(A)]	Yes	IJ	No	i N/A				
	d.	An evaluation by a corrosion expert (only if the external system/components are metal and in contact with soil or water)? [3745-66-92(A)]	Yes	□⁄	No	■ N/A				

	e.	needed	rmination of design and operational measures that will be d to protect the tank system from potential damage (only for ground tank components)? [3745-66-92(A)]	Yes		No 🗆 N/A	Z
	f.	Design	n considerations to ensure that the tank foundations will in the load of a full tank? [3745-66-92(A)]	Yes	D	No □ N/A	
	g.	Design (only fo	n considerations for anchoring the unit to prevent floatation or tanks situated in a seismic fault zone or saturated zone)? 66-92(A)]	Yes		No □ N/A	Ż
	h.	Design the eff [3745-	n considerations to ensure that the tank system will withstand ects of frost heave (only for underground tank systems)? 66-92(A)]	Yes		No □ N/A	Ŕ
NOTE	E: CO-	DHWM.	Engineering staff are available to assist you with evaluation of th	e writte	en aș	sessment.	
15.	Are the or ce property	nere writ rtified de erly insta 5-66-92(ten statements by those persons who supervised installation esign of the new tank system, that the tank system was alled and designed and that required repairs were performed? G)]	Yes	☑′	No □ N/A	
	Do th	e writter	n statements address all of the following:				
	a.	install	ction for damage and/or inadequate construction and ation was conducted? [3745-66-92(B)]	Yes	. ☑	No □ N/A	
	b.	Stater	nent that deficiencies were corrected before the tank system overed or put into use? [3745-66-92(B)]	Yes	9	No □ N/A	
	C.		r backfilling? [3745-66-92(C)]	Yes		No □ N/A	Ø
	d.	Tightr	ness test; if the tank system was found not to be tight, does the nent indicate that proper repairs were made? [3745-66-92(D)]	Yes		No □ N/A	×
	e.		er support and protection of ancillary equipment? [3745-66-	Yes	T	No □ N/A	
	f.	Super	rvision of the installation of field fabricated corrosion ction? [3745-66-92(F)]	Yes		No □ N/A	Ø
SEC	ONDA	RY CON	TAINMENT			/	
16.	Has	seconda	ary containment been provided? [3745-66-93(A)]	Yes	3	No. □ N/A	
wast	es with	in two y	containment must be provided for tank systems that store or trea ears after the hazardous waste listing, or when the system has r 66-92(A)(2)]	t mate eached	rials d 15	that become had years of age, wh	zardous nichever
17.	Is se	condary	containment one of the following:	Yes	d	No □ N/A	
	a.	An E	xternal Liner? [3745-66-93(E)(1)] If so,	Yes	Q	No □ N/A	
		i.	Is liner designed or operated to contain 100% of the capacity of the largest tank?	Yes	V	No □ N/A	
		ii.	Is liner designed and operated to prevent run-on and infiltration or the collection system has excess capacity to contain run-on and infiltration from a 25-year, 24-hour storm?			No □ N/A -sosten	
		iii.	Is liner free of cracks and gaps?	Yes	P	No □ N/A	
		iv.	Does liner completely surround the tank and cover all earth likely to be contacted by waste during a release?	Yes	9	/	
		٧.	Are chemically resistant water stops in place at all points? (concrete liners only)	Yes	9	No □ N/A	

		vi.	Is there a compatible interior coating or lining to prevent migration of waste into the concrete? (concrete liners only)	Yes		No □ N/A	7 .
	b.	<u>Vault</u>	System? [3745-66-93(E)(2)] if so,	Yes		No 19 N/A	
	1	i,	Is vault system designed to contain 100% of the capacity in the largest tank?	Yes		No 🗀 N/A	ф
		ii.	Is liner designed and operated to prevent run-on and infiltration or the collection system has excess capacity to contain run-on and infiltration from a 25-year, 24-hour storm?	Yes		No □ N/A	
		iii,	Are chemically resistant water stops in place at all points?	Yes		No □ N/A	4
:		lv.	Is there a compatible interior coating to prevent migration into the concrete?	Yes		No 🖽 N/A	
		V.	For ignitable or reactive waste : Is the vault system provided with means to prevent (or alternatively "protect against") the formation or ignition of vapors?	Yes		No. □ N/A	
		Vi,	Is vault system provided with an exterior moisture barrier?	Yes		No 🗀 N/A	d ·
	C.	Doub	<u>le-Walled Tank?</u> [3745-66-93(E)(3)] If so,	Yes		No ☑ N/A	
		i.	Is double-walled tank designed as an integral structure to contain any release from the inner tank?	Yes		No □ N/A	†
		ii.	If metal, are the primary tank interior and outer shell exterior surfaces protected from corrosion?	Yes		No E N/A	p
		iii.	Is double-walled tank provided with a continuous leak detection system able to detect a release within 24 hours or at the earliest practicable time?	Yes		No E N/A	
	d.		quivalent Device? As described in 3745-66-93(D)(4) which een approved by the director? [3745-66-93(D)&(E)]	Yes		No N/A	
	ONDAR	Y CON	TAINMENT DESIGN/OPERATION/INSTALLATION	•		/	
18.	opera groun	ted to p dwater	condary containment system been designed, installed and prevent any migration of wastes or liquid to the soil, or surface water and is it capable of detecting and collecting accumulated liquids? [3745-66-93(B)(1)&(2)]	Yes	<u>d</u>	No 🗐 N/A	
19.			condary containment system meet the following minimum of [3745-66-93(C)]:			<u> </u>	
	a.	to pre	ructed or lined with compatible materials of sufficient strength vent failure? [3745-66-93(C)(1)]	Yes		No □ N/A	
	b.		d on a foundation or base capable of providing support? [3745-(C)(2)].	Yes		No □ N/A	
	c.	failure hazar [3745	ded with a leak detection system designed/operated to detect to primary or secondary containment or any release of dous waste within 24 hours or at earliest practicable time? -66-93(C)(3)]	Yes	v	No 🗀 N/A	
	d.	Slope	d or designed to drain and remove liquid resulting from leaks, or precipitation? [3745-66-93(C)(4)]	Yes	Ø	No □ N/A	
	e.	spills,	quid which accumulates in the containment unit resulting from leaks or precipitation removed within 24 hours or in a timely er? [3745-66-93(C)(4)]	Yes		No □ N/A	Ø
			PMENT REQUIREMENTS	T			
20.	Is and	illary e	quipment provided with secondary containment (such as	Yes		No ·⊠′ N/A	

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		The state of the s				
	double	e-walled piping, jacketing or a trench)?				- NY 1-10-10
	If not,	is the ancillary equipment one of the following: [3745-66-93(F)]		/	/	
	a. '	Above ground piping (exclusive of flanges, joints, valves and connections) that is inspected daily?	Yes	D'	No □ N/A	
	b.	Welded flanges, welded joints and/or welded connections that is inspected daily?	Yes		No □ N/A	Q
	C.	Sealless or magnetic coupling pumps and/or sealless valves?	Yes		No □ N/A	Ø
	d.	Pressurized above ground piping systems with automatic shut-off devices (e.g., excess flow check valves, flow metering shutdown and/or loss of pressure-actuated shut-off devices) that is inspected daily?	Yes	d	No □ N/A	
TANK	SYST	EMS FOUND TO BE LEAKING OR UNFIT FOR USE	<i>S</i>			
21.		nere been a leak or spill from any tank system or has any tank system found unfit for use? If so , did the olo:	Yes		No E√ N/A	
NOTE	: If the	tank is found to be unfit for use, inspector should explain why.				
-	a.	Immediately cease flow of material into tank and investigate the cause of the release? [3745-66-96(A)]	Yes		No □ N/A	1
	b.	Remove waste from tank system to prevent further release within 24 hours of detection or earliest practicable time? [3745-66-96(B)(1)]	Yes		No □ N/A	<u> </u>
	c.	Remove all material released into secondary containment system within 24 hours or as timely as possible to prevent harm to human health and the environment? [3745-66-96(B)(2)]	Yes		No □ N/A	P
	d.	For a visible release to the environment, immediately conduct a visual inspection of the release? [3745-66-96(C)]	Yes		No. □ N/A	4
	е.	For a visible release to the environment, prevent further migration of the leak or spill to soils or surface waters? [3745-66-96(C)]	Yes		No □ N/A	1
	f.	For a visible release to the environment, properly dispose of any visibly contaminated soil or surface water? [3745-66-96(C)]	Yes		No □ N/A	<u>†</u>
14	g.	Report any release to the environment to the director within 24 hours unless it was less than one pound and was cleaned up immediately? [3745-66-96(D)(1)]	Yes		No. □ N/A	
	h.	For a release to the environment, submit a written report of the incident to the director within 30 days of the release? [3745-66-96(D)(3)]	Yes		No □ N/A	
	i.	Remediate the spill and repair the unit prior to returning it to service? [3745-66-96(E)(2)]	Yes		No 🗀 N/A	ф
	j.	For a release from a tank system without secondary containment, did the o/o provide secondary containment meeting the requirements of 3745-66-93 for the unit prior to putting it back into service? [3745-66-96(E)(4)]	Yes		No □ N/A	ф
		requirements noted in 20.j. do not apply if the release was from an abore inspected visually after being put back into service.	ve gro	und c	component of th	e tank
22.		e event that the repairs to the tank system were major (e.g.,	Yes		No □ N/A	中
	struc engir	cement of liner, repair of ruptured primary or secondary containment ture), did the o/o obtain a certification from a qualified professional neer attesting that the repaired unit is capable of handing hazardous e? [3745-66-96(F)]		148	Against Agent	27
23,	Was	a copy of the certification submitted to the director within seven days returning the system to use? [3745-66-96(F)]	Yes		No □ N/A	中
24.		ro/o was unable to repair and return the unit to service as described in	Yes		No □ N/A	ф
L	.1		1			

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		hrough 20.e, was the tank system closed in accordance with 3745-66-3745-66-96(E)(1)]		/
25.	conta	the o/o have a tank system with a variance from secondary ainment from which a release has occurred but has not migrated and the zone of engineering control? If so,	Yes	No ☑ N/A □
	a.	Has the o/o complied with 3745-66-96(A) through (F), except (D), and decontaminated soils? [3745-66-93(G)(3)]	Yes	No E N/A D
	b.	If soils cannot be decontaminated/removed, has the o/o complied with 3745-66-97(B)? [3745-66-93(G)(3)]	Yes	No E N/A th
26.	conta	the o/o have a tank system with a variance from secondary ainment from which a release occurred and has migrated from the of engineering control? If so,	Yes	No ☑ N/A □
AL	a.	*Has the o/o complied with 3745-66-96(A) through (D), prevented migration, and decontaminated soil? [3745-66-93(G)(4)]	Yes	No E N/A D
	b.	If soils cannot be decontaminated/removed, or if the groundwater has been contaminated, has the o/o complied with 3745-66-97(B)? [3745-66-93(G)(4)]	Yes	No 🗆 N/A 🖟